XR-M500R/M550

SERVICE MANUAL

US Model
Canadian Model
XR-M550

AEP Model
UK Model
XR-M500R

Photo: XR-M550

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MG-25E-136

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
19 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1% total harmonic distortion.

Other specifications

Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.08 % (WRMS)
Frequency response	30 – 20,000 Hz
Signal-to-noise ratio	

Cassettetype	Dolby B NR	Dolby NR off
TYPE II, IV	67 dB	61 dB
TYPE I	64 dB	58 dB

Tuner section

FM

Tuning range	87.5 – 108.0 MHz (XR-M500R) 87.5 – 107.9 MHz (XR-M550)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450kHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	66 dB (stereo), 72 dB (mono)
Harmonic distortion at 1 kHz	0.6 % (stereo), 0.3 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW/LW (XR-M500R)

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 µV LW: 40 µV

AM (XR-M550)

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 µV

– Continued on next page –

FM/AM (MW/LW) CASSETTE CAR STEREO

SONY®

Power amplifier section

Outputs	Speaker outputs
Speaker impedance	4 – 8 ohms
Maximum power output	50 W × 4 (at 4 ohms)

General

Outputs	Audio output (2) (M500R) Audio output (3) (M550) Power aerial relay control lead Power amplifier control lead
Inputs	Telephone ATT control lead Illumination control lead
Tone controls	Bass ±9 dB at 100 Hz Treble ±9 dB at 10 kHz
Power requirements	12 V DC car battery (negative earth)
Dimensions	Approx. 178 × 50 × 182 mm ($7\,^1/_8 \times 2 \times 7\,^4/_1$ in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 163 mm ($7\,^1/_4 \times 2\,^1/_8 \times 6\,^1/_2$ in.) (w/h/d)
Mass	Approx. 1.3 kg (2lb. 14 oz.)
Supplied accessories	Card remote commander RM-X96 (XR-M500R) RM-X94 (XR-M550) Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

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Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

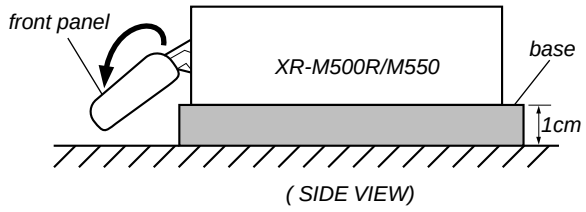
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SECTION 1
SERVICING NOTES

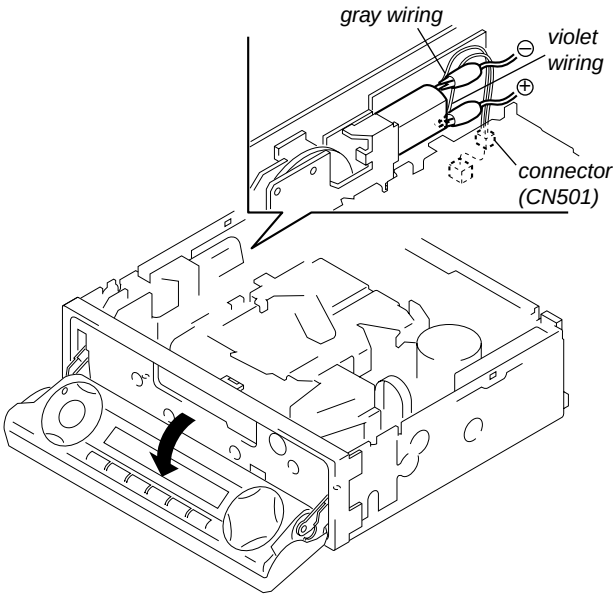
PRECAUTION ON OPEN/CLOSE FRONT PANEL

The front panel opens to the bottom of main unit.
In performing the repair, place the main unit on the base having the height exceeding 1 cm.



Open the front panel by supplying the power through the following steps:

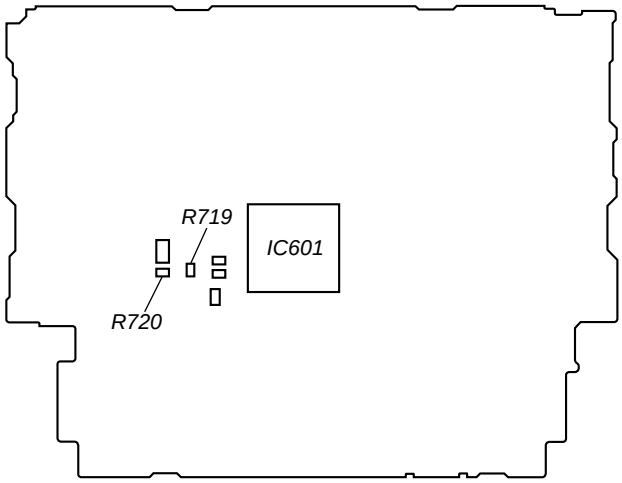
1. Disconnect the motor connector (CN501) from main board.
2. Supply the power to the motor.
   Voltage : 9 V
   Violet wiring : MOTOR –
   Gray wiring : MOTOR +



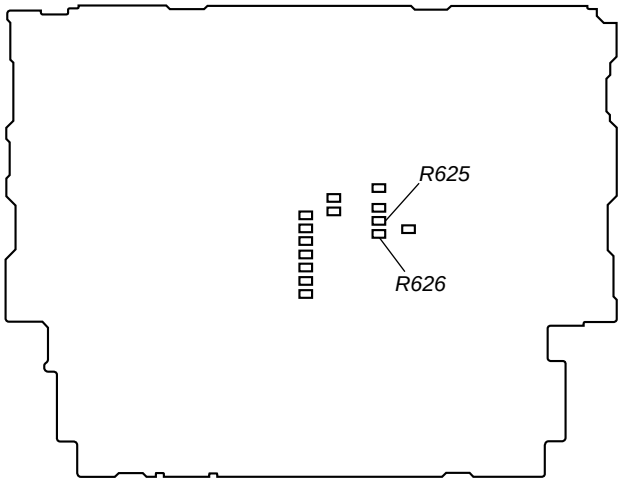
MODEL IDENTIFICATION

There are four types of main board in according of destination for XR-M500R.

– MAIN BOARD (Componet Side) –



– MAIN BOARD (Conductor Side) –



	R625	R626	R719	R720	Indicated language
TYPE A	○	○	×	×	English, Spanish, Swedish, Portuguese
TYPE B	×	×	○	○	German, Italian, Dutch, French
TYPE C	×	○	○	×	English, German
TYPE D	○	×	×	○	English, Polish, Czeck, Turkish

TYPE A, B, C, or D can also be identified from the front panel display language.
For a switching method of display language, see page 4.

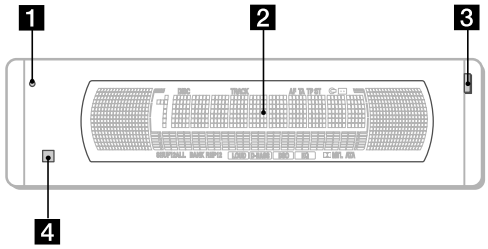
SECTION 2
GENERAL

This section is extracted from instruction manual.

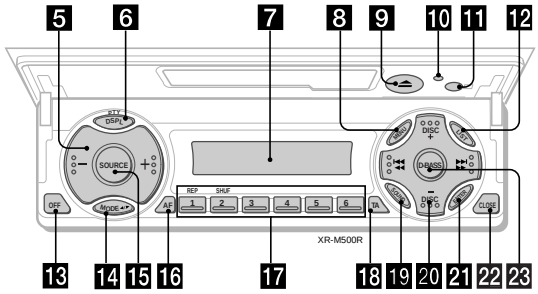
(XR-M500R)

Location of controls

Security side



Operation side



The corresponding buttons of the unit control the same functions as those on the card remote commander.

1 10 Reset button 8
2 Main display window
3 OPEN button 38
4 11 Receptor for the card remote commander
5 Volume adjust buttons
6 DSPL/PTY (display mode change/ programme type) button
7 Sub display window
8 MENU button
9 ⏏ (eject) button 11
12 LIST button
13 OFF button* 9
14 MODE button
15 SOURCE (TUNER/TAPE/CD/MD) button
16 AF button 16, 18
17 Number buttons
During radio reception:
Preset number select 13, 14, 17, 33, 34
During tape playback:
① REP 12
During CD/MD playback:
① REP 28
② SHUF 28
18 TA button 16, 17, 18
19 SOUND button
20 PRST/DISC+/– (cursor up/down) buttons SEEK/AMS–/+ (cursor left/right) buttons 13
21 ENTER button
22 CLOSE button
23 D-BASS button

*** Warning when installing in a car without ACC (accessory) position on the ignition key switch**
Be sure to press (OFF) on the unit for two seconds to turn off the clock display after turning off the engine.
When you press (OFF) only momentarily, the clock display does not turn off and this causes battery wear.

Setting the clock

The clock uses a 24-hour digital indication.

Example: To set the clock to 10:08

1 Press (MENU), then ↑ or ↓ repeatedly until "Clock" appears.

❶ Press (ENTER).

The hour indication flashes.

❷ Press ↑ or ↓ to set the hour.

❸ Press →.

The minute indication flashes.

❹ Press ↑ or ↓ to set the minute.

2 Press (ENTER).

The clock starts.

Tips

- *You can use the convenient CT function to set the clock automatically (page 20).*
- *When the D.Info mode is set to "on," the time is always displayed (except for some functions of SA mode) (page 23).*

Changing the sound and display settings

The following items can be set:

Set (Setting)

- Clock (page 10).
- CT (Clock Time) (page 20).
- Beep — to turn the beep sound on or off.
- RM (Rotary Commander) — to change the operative direction of the rotary commander.
  — Select "norm" to use the rotary commander as the factory-set position.
  — Select "rev" when you mount the rotary commander on the right side of the steering column.
- English/Spanish/Portuguese/Swedish — to change the display language to English, Spanish, Portuguese or Swedish.

Dis (Display)

- D.Info (Dual Information) — to display the clock and the play mode simultaneously (on), or to display the information alternately (off).
- SA (Spectrum Analyzer) — to change the display pattern of the equalizer display (page 25).
- Dimmer — to change the brightness of the display (When the Illumination terminal connected).
  — Select "on" to dim the display.
  — Select "off" to deactivate Dimmer.
- Contrast — to adjust the contrast if the indications in the display are not recognisable because of the unit's installed position.
- M.Dspl (Motion Display) — to turn the motion display on or off.
- A.Scrl (Auto Scroll) (page 27).

continue to next page →

1 Press (MENU).

2 Press ↑ or ↓ repeatedly until the desired item appears.

Each time you press ↓, the item changes as follows:
Example
Clock → CT → Beep → RM → English/ Spanish/Portuguese/Swedish → D.Info → SA → Dimmer → Contrast → M.Dspl*1 → A.Scrl*2

**1 When no CD or MD is playing, this item will not appear.*
**2 When the radio is off, or when no tape, CD, or MD is playing, this item will not appear.*

Note
The displayed item will differ depending on the source.

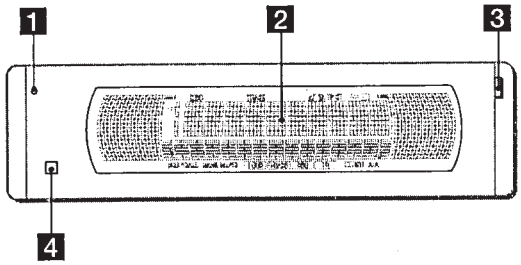
Tip
You can easily switch among categories ("Set," "Snd" (Sound), "P/M" (Play Mode) and "Dis") by pressing ↑ or ↓ for two seconds.

3 Press → to select the desired setting (Example: on or off).

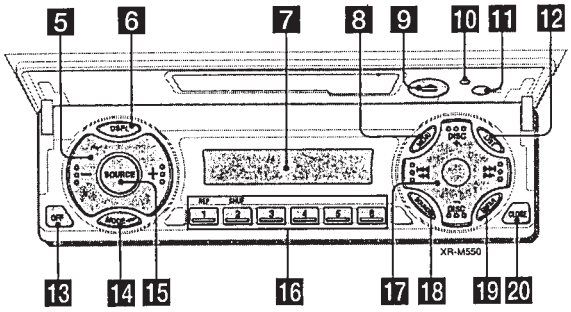
4 Press (ENTER).
After the mode setting is complete, the display returns to normal playback mode.

Location of controls

Security side



Operation side



The corresponding buttons of the unit control the same functions as those on the card remote commander.

1 10 Reset button (located on the front side of the unit behind the front panel) 8

2 Main display window

3 OPEN button

4 11 Receptor for the card remote commander

5 Volume adjust buttons

6 DSPL (display mode change) button

7 Sub display window

8 MENU button

9 ≜ (eject) button 10

12 LIST button

13 OFF button* 8

14 MODE button

15 SOURCE button

16 Number buttons
During tape playback:
① REP 11
During radio reception
Preset number select 12, 13
During CD/MD playback:
① REP 21
② SHUF 22
During TV reception:
Preset number select 26

17 PRST/DISC +/– (cursor up/down) buttons
SEEK/AMS –/+ (cursor left/right) buttons 12

18 SOUND button

19 ENTER button

20 CLOSE button

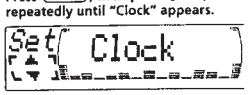
*** Warning when installing in a car without ACC (accessory) position on the ignition key switch**
Be sure to press (OFF) on the unit for two seconds to turn off the clock display after turning off the engine.
When you press (OFF) only momentarily, the clock display does not turn off and this causes battery wear.

Setting the clock

The clock uses a 12-hour digital indication.

Example: To set the clock to 10:08

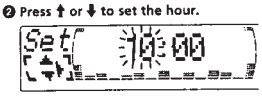
1 Press (MENU), then press ↑ or ↓ repeatedly until "Clock" appears.



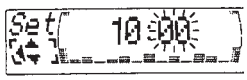
❶ Press (ENTER).

The hour indication flashes.

❷ Press ↑ or ↓ to set the hour.

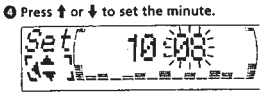


❸ Press →.



The minute indication flashes.

❹ Press ↑ or ↓ to set the minute.



2 Press (ENTER).

The clock starts.

Tip
In the initial setting, the clock indication appears while the unit is turned off.
When the D.Info mode is set to "on," the time is always displayed (except for some functions of SA mode) (page 18).

Changing the sound and display settings

The following items can be set:

Set (Setting)

- Clock (page 9).
- Beep — to turn the beep sound on or off.
- RM (Rotary Commander) — to change the operative direction of the rotary commander.
  — Select "norm" to use the rotary commander as the factory-set position.
  — Select "rev" when you mount the rotary commander on the right side of the steering column.
- English/French/Spanish — to change the display language to English, French, or Spanish.

Dis (Display)

- D.Info (Dual Information)*1 — to display the clock and the play mode simultaneously (on), or to display the information alternately (off).
- SA (Spectrum Analyzer) — to change the display pattern of the equalizer display (page 19).
- Dimmer — to change the brightness of the display (When the illumination cord connected).
  — Select "Auto" to dim the display only when you turn the interior lights on.
  — Select "on" to dim the display.
  — Select "off" to deactivate Dimmer.
- Contrast — to adjust the contrast if the indications in the display are not recognizable because of the unit's installed position.
- M.Dspl (Motion Display) — to turn the motion display on or off.
- A.Scrl (Auto Scroll)*2 (page 20).

Snd (Sound)

- HPF (High pass filter for the pre-output) — to select the cut-off frequency of the pre-output.
- LPF (Low pass filter for the subwoofer output) — to select the cut-off frequency of the subwoofer output.
- Loud (Loudness)*1 — to enjoy bass even at low volumes. The bass will be reinforced.

1 Press (MENU).

2 Press ↑ or ↓ repeatedly until the desired item appears.

Each time you press ↓, the item changes as follows:

Example
Clock → Beep → RM → English/French/Spanish → D.Info*1 → SA*1 → Dimmer → Contrast → M.Dspl → A.Scrl*2 → HPF*1 → LPF*1 → Loud*1

1 When the radio is off, or when no tape, CD, or MD is playing, this item will not appear.
2 When no CD or MD is playing, this item will not appear.

Note
The displayed item will differ depending on the source.

Tip
You can easily switch among categories ("Set," "Snd," "PIM" (Play Mode) and "Dis") by pressing an holding ↑ or ↓ for two seconds.

3 Press → to select the desired setting (Example: on or off) or press ← or → repeatedly to select the frequency (Example: off, 78 Hz or 125 Hz).
For the "Contrast" setting, pressing → makes the contrast higher, and pressing ← makes the contrast lower.

4 Press (ENTER).
After the mode setting is complete, the display returns to normal playback mode.

(XR-M500R)

Installation

Precautions

- If you mount other Sony equipment with this unit, it is better to mount this unit in the lower position.
- There must be a distance of at least 15 cm between the cassettes slot of the unit and shift lever to insert cassette easily. Choose the installation location carefully so the unit does not interfere with gear shifting and other driving operations.
- When the front panel is open, a portion of it will extend down from the unit. When you install the unit, make sure that this portion of the front panel is not obstructed in its open position (by the ashtray, for example).
- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperatures, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 20°.

Instalación

Precauciones

- Si monta otro equipo Sony con esta unidad, es preferible montar esta unidad en la posición más baja.
- Para que sea posible insertar la cinta con facilidad, debe haber una distancia de al menos 15 cm entre la ranura de inserción de cintas de la unidad y la palanca de cambios.
  Instale la unidad en un lugar que no entorpezca las operaciones de cambio de marchas o de conducción en general.
- Cuando el panel frontal está abierto, una parte de él sobresaldrá de la unidad. Cuando instale la unidad, compruebe que dicha parte del panel frontal no queda obstruida en la posición de apertura (debido al cenicero, por ejemplo).
- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a altas temperaturas, como a la luz solar directa o al aire de calefacción, o a polvo, suciedad, o vibraciones excesivas.
- Para realizar una instalación segura y firme, utilice solamente la ferretería de montaje suministrada.

Ajuste del ángulo de montaje

Ajuste el ángulo de montaje a menos de 20°.

Montering

Säkerhetsföreskrifter

- Om du monterar annan Sony-utrustning till denna enhet är det bäst att montera denna enhet i det undre läget.
- För att du ska kunna sätta i och ta ut bandet måste avståndet vara minst 15 cm mellan kassettfacket på enheten och växelspaken. När du installerar enheten väljer du en plats så att enheten inte är i vägen när du kör.
- När frontpanelen är öppen befinner sig en liten del av den under enhetens bottenplan. Se till att du installerar enheten så att den här delen går fri (från t.ex. askkoppen) när frontpanelen är öppen.
- Var noga när du väljer var i bilen du monterar bilstereon, så att den inte sitter i vägen när du kör.
- Montera inte bilstereon där den utsätts för värme,
  t ex solsken eller varmluft, eller där den utsätts för damm, smuts och/eller vibrationer.
- Använd endast de medföljande monteringstillbehören för att vara säker på att bilstereon monteras på ett säkert och korrekt sätt.

Tillåten monteringsvinkel

Monteringsvinkeln får inte vara större än 20 grader.

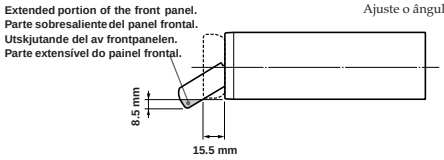
Instalação

Precauções

- É preferível montar este aparelho na posição mais baixa, se quiser montar simultaneamente outros equipamentos da Sony.
- Para colocar com facilidade a cassete, deve haver uma distância de pelo menos 15 cm entre a ranhura de introdução da cassete e a alavanca das mudanças.
  Escolha o local de instalação de forma a que o aparelho não interfira com as mudanças de velocidade ou com as outras manobras de condução.
- Quando o painel frontal estiver aberto, pode puxar a parte extensível baixo. Quando instalar a unidade, verifique se essa parte do painel frontal não está presa na posição aberta (pelo cinzeiro, por exemplo).
- Escolha com cuidado um local apropriado para a montagem do aparelho, para que este não interfira com as manobras necessárias à condução do veículo.
- Evite instalar o aparelho onde possa estar sujeito a altas temperaturas, como em locais expostos directamente à luz do sol, ao ar quente dos aquecimentos, ou sujeitos a pó, sujidade ou vibração excessiva.
- Para efectuar uma instalação segura utilize unicamente o hardware de montagem fornecido.

Ajuste do ângulo de montagem

Ajuste o ângulo de montagem a menos de 20°.

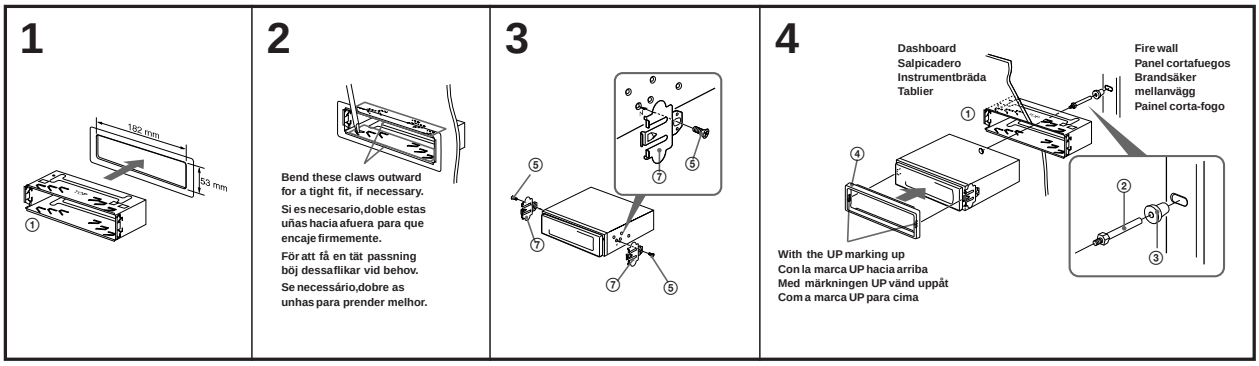

Extended portion of the front panel.
Parte sobresaliente del panel frontal.
Utskjutande del av frontpanelen.
Parte extensível do painel frontal.
8.5 mm
15.5 mm

Installation in the dashboard

Instalación en el salpicadero

Montera på instrumentbrädan

Instalação no tablier



Note
To prevent malfunction, install only with the supplied screws Ⓢ.

Nota
Para evitar fallos de funcionamiento, realice la instalación únicamente con los tornillos suministrados Ⓢ.

Observera
Använd bara de medföljande skruvarna Ⓢ, så undviker du onödiga fel.

Nota
Para evitar avarias, instale o aparelho apenas com os parafusos fornecidos Ⓢ.

Reset button

When the installation and connections are complete, be sure to press the reset button with a ballpoint pen, etc.

Botón de restauración

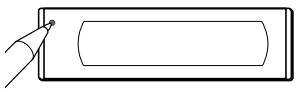
Cuando finalice la instalación y las conexiones, cerciórese de pulsar el botón de restauración con un bolígrafo, etc.

Nollställningsknappen

Kom ihåg att använda en penna eller något annat spetsigt föremål för att trycka på nollställningsknappen när anslutningen och monteringen är klar.

Botão de reinicialização

Quando terminar a instalação e as ligações, não se esqueça de carregar no botão de reinicialização com a ponta de uma caneta, esferográfica, etc.



(XR-M550)

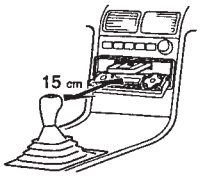
Installation

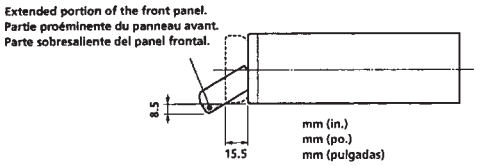
Precautions

- There must be a distance of at least 15 cm (6 in.) between the cassette slot of the unit and shift lever in order to insert a cassette easily. Choose the installation location carefully so the unit does not interfere with gear shifting and other driving operations.
- When the front panel is open, a portion of it will extend down from the unit. When you install the unit, make sure that this portion of the front panel is not obstructed in its open position (by the ashtray, for example).
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperature, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

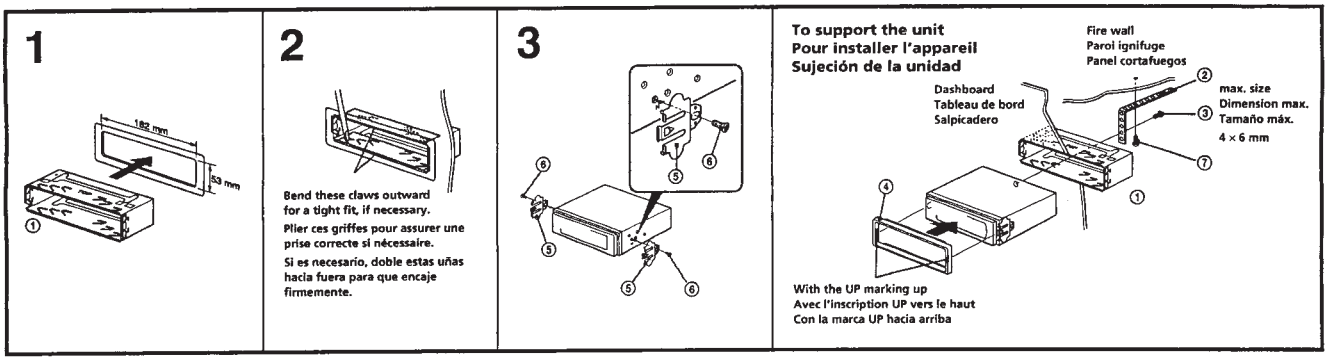
Adjust the mounting angle to less than 20°.





Mounting example

Installation in the dashboard



Note
To prevent malfunction, install only with the supplied screws ⑧.

Installation

Précautions

- Pour pouvoir introduire et éjecter aisément la cassette, il doit y avoir une distance d'au moins 15 cm (6 po.) entre le logement de la cassette de l'appareil et le levier de changement de vitesses. Choisir l'endroit de montage de telle façon que l'appareil ne gêne pas le maniement du levier de changement de vitesses ou toute autre opération de conduite.
- Lorsque le panneau avant est ouvert, une partie de celui-ci ressort au bas de l'appareil. Lorsque vous installez l'appareil, veillez à ce que cette partie du panneau avant ne soit pas gênée dans sa position ouverte (par le cendrier par exemple).
- Eviter d'installer l'appareil dans un endroit exposé à des températures élevées, comme en plein soleil ou à proximité d'une bouche d'air chaud, ou à de la poussière, saleté ou vibrations violentes.
- Pour garantir un montage sûr, n'utiliser que le matériel fourni.

Réglage de l'angle de montage

Ajuster l'inclinaison à un angle inférieur à 20°.

Exemple de montage

Installation dans le tableau de bord

Remarque
Pour éviter tout dysfonctionnement, utilisez uniquement les vis de montage fournies ⑧.

Instalación

Precauciones

- Para que sea posible insertar cassettes con facilidad, debe haber una distancia de al menos 15 cm (6 pulgadas) entre la ranura de inserción de cassettes de la unidad y la palanca de cambios. Elija cuidadosamente el lugar de instalación de forma que la unidad no entorpezca las operaciones de cambio de marchas o de conducción en general.
- Cuando el panel frontal está abierto, una parte de él sobresaldrá de la unidad. Cuando instale la unidad, compruebe que dicha parte del panel frontal no queda obstruida en la posición de apertura (debido al cenicero, por ejemplo).
- Evite instalar la unidad donde pueda quedar sometida a altas temperaturas, como a la luz solar directa o al aire de calefacción, o a polvo, suciedad, o vibraciones excesivas.
- Para realizar una instalación segura y firme, utilice solamente la ferretería de montaje suministrada.

Ajuste del ángulo de montaje

Ajuste el ángulo de montaje a menos de 20°.

Ejemplo de montaje

Instalación en el salpicadero

Nota
Para evitar que se produzcan fallos, realice la instalación solamente con los tornillos suministrados ⑧.

Mounting the unit in a Japanese car

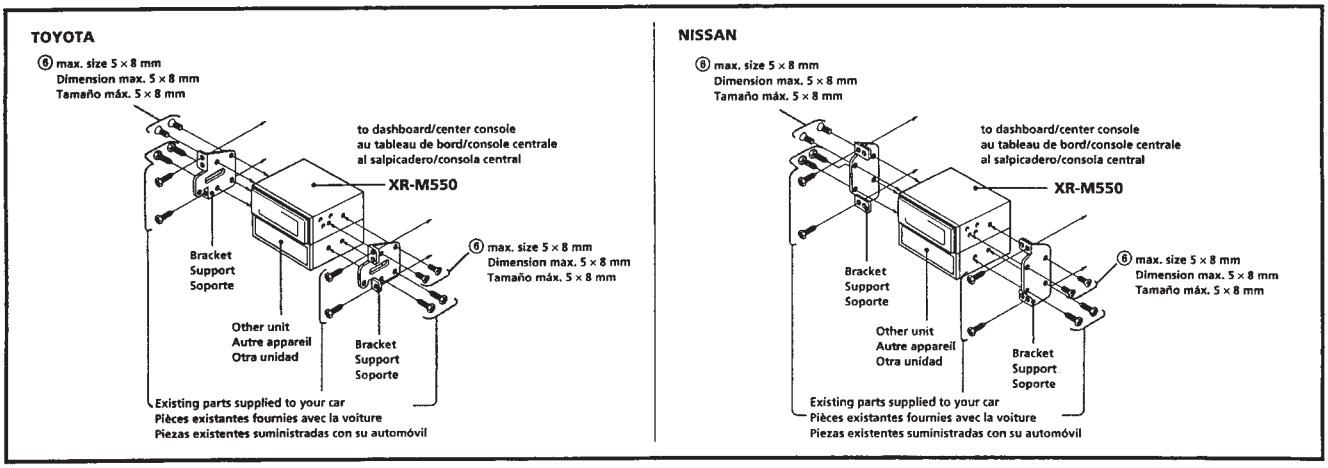
You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

Installation de l'appareil dans une voiture japonaise

Si vous ne pouvez pas installer l'appareil dans une voiture japonaise, consultez votre revendeur Sony.

Montaje de la unidad en un automóvil japonés

Usted no podrá instalar esta unidad en algunos automóviles japoneses. En tal caso, consulte a su proveedor Sony.



Notes
- *When you mount another unit under this unit, make sure this unit does not cause an obstruction in operating the other unit. Make sure you can see the display, and insert and eject CDs, MDs, or cassette tapes.*
- *To prevent malfunction, install only with the supplied screws ⑧.*

Remarques
- *Lorsque vous installez un autre appareil sous cet appareil, assurez-vous de disposer d'assez de place pour assurer une utilisation correcte des deux appareils. Assurez-vous de pouvoir consulter l'affichage, insérer et éjecter des CD, des MD ou des cassettes.*
- *Pour éviter tout dysfonctionnement, utilisez uniquement les vis de montage fournies ⑧.*

Notas
- *Si instala otra unidad debajo de esta, compruebe que esta unidad no dificulta el uso de la otra. Compruebe que puede ver el visualizador, e insertar y expulsar los discos compactos, los minidiscos o las cintas.*
- *Para evitar que se produzcan fallos, realice la instalación solamente con los tornillos suministrados ⑧.*

(XR-M500R)

Connections

Cautions

- This unit is designed for negative earth 12 V DC operation only.
- Be careful not to pinch any wires between a screw and the body of the car or this unit or between any moving parts such as the seat railing, etc.
- Connect the power connecting cord ⓑ to the unit and speakers before connecting it to the auxiliary power connector.
- **Run all earth wires to a common earth point.**
- Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating. If you connect this unit in combination with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual components' fuse rating. If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery. If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.

Warning when installing in a car without ACC (accessory) position on the ignition key switch

Be sure to press (OFF) on the unit for two seconds to turn off the clock display after turned off the engine.
When you press (OFF) momentarily, the clock display does not turn off and this causes battery wear.

Notes of connection example

Notes on the control leads

- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation), AF (Alternative Frequency) or the TA (Traffic Announcement) function.*
- *A power aerial without a relay box cannot be used with this unit.*
- *When your car has a built-in FM/MW/LW aerial in the rear/side glass, it is necessary to connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*

Warning
If you have a power aerial without a relay box, connecting this unit with the supplied power connecting cord ⓑ may damage the aerial.

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection

- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
- *Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Be sure to connect passive speakers to these terminals.*

Conexiones

Precauciones

- Esta unidad ha sido diseñada para alimentarse con 12 V CC, negativo a masa, solamente.
- Tenga cuidado de no atrapar ningún cable entre algún tornillo y la carrocería del automóvil o esta unidad o entre las partes móviles, como por ejemplo los raíles del asiento, etc.
- Conecte el cable de conexión de alimentación ⓑ a la unidad y los altavoces antes de conectarlo al conector de alimentación auxiliar.
- **Conecte todos los conductores de puesta a masa a un punto común.**
- Conecte el cable amarillo a un circuito libre del automóvil de potencia nominal superior a la del fusible de la unidad. Si conecta esta unidad en combinación con otros componentes estéreo, la potencia nominal del circuito del automóvil a los que dichos componentes estén conectados debe ser superior a la suma de la potencia nominal del fusible de los componentes. Si no existen circuitos de automóvil de potencia nominal tan alta como la del fusible de la unidad, conecte ésta directamente a la batería. Si no hay circuitos de automóvil disponibles para conectar esta unidad, conecte la misma a un circuito de automóvil de potencia nominal superior a la del fusible de la unidad de forma que no se desactiven otros circuitos si el fusible de dicha unidad se funde.

Advertencia sobre la instalación en un automóvil que no disponga de posición ACC (accesorios) en el interruptor de la llave de encendido

Asegúrese de pulsar (OFF) en la unidad durante dos segundos para desactivar la indicación del reloj una vez apagado el motor.
Si pulsa (OFF) momentáneamente, la indicación del reloj no se desactivará y esto causará el desgaste de la batería.

Notas de ejemplo de conexiones

Notas sobre cables de control

- *El cable de control (azul) de la antena motorizada suministra + 12 V CC al activar el sintonizador o la función ATA (activación automática del sintonizador), AF (frecuencias alternativas) o TA (anuncios de tráfico).*
- *Con esta unidad no podrá utilizarse una antena motorizada sin caja de relés.*
- *Si el automóvil dispone de antena de FM/MW/LW incorporada en el cristal trasero/lateral, será necesario conectar el cable de control de antena motorizada (azul) o el cable de entrada de alimentación accesoria (rojo) al terminal de potencia del amplificador de antena existente. Para más información, consulte con el proveedor.*

Advertencia
Si dispone de una antena motorizada sin dispositivo de relé, la conexión de esta unidad con el cable de conexión de alimentación ⓑ suministrado puede dañar la antena.

Conexión para protección de la memoria
Si conecta el cable de entrada de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, incluso aunque ponga la llave de encendido en la posición de apagado.

Notas sobre la conexión de los altavoces

- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 ohmios, y con la potencia máxima admisible adecuada, ya que de lo contrario podría dañarlos.*
- *No conecte los terminales del sistema de altavoces al chasis del automóvil, ni los del altavoz izquierdo a los del derecho.*
- *No intente conectar los altavoces en paralelo.*
- *No conecte altavoces activos (con amplificadores incorporados) a los terminales de altavoces de la unidad. Si lo hiciese, podría dañar tales altavoces. Por lo tanto, cerciórese de conectar altavoces pasivos a estos terminales.*

Anslutning

Säkerhetsföreskrifter

- Denna bilstereo är endast avsedd för anslutning till ett negativt jordat, 12 V bilbatteri.
- Var noga med att inga kablar kläms mellan någon skruv eller att de blir klämda mellan rörliga delar som t.ex. bilsätet.
- Anslut strömkabeln ⓑ till enheten och högtalarna innan du ansluter den till den yttre strömanslutningen.
- **Dra samtliga jordledningar till en och samma jordningspunkt.**
- Anslut den gula kabeln till en ledig bilkrets med ett högre amperetal än enhetens. Om du kopplar både denna enhet och andra stereokomponenter till en och samma bilkrets, måste den bilkrets de kopplas till ha en högre ampere än summan av de enskilda delarnas amperestyrka. Om det inte finns några bilkretsar med en så hög amperestyrka som enhetens ska du ansluta enheten direkt till batteriet. Om inga bilkretsar finns för anslutning till enheten ska du ansluta enheten till en bilkrets med ett högre amperetal än enhetens säkring, så att det är denna som går i stället för bilens.

Var försiktig när du gör installationen i en bil där tändningslåset saknar tillbehörsläge (ACC)

Glöm inte att trycka på (OFF) på enheten under två sekunder för att stänga av klockans teckenfönster efter det att du har stängt av motorn.
Om du bara trycker på (OFF) ett kort ögonblick slocknar inte klockans teckenfönster vilket kan leda till att batteriet laddas ur.

Att observera angående anslutningsexemplen

Att observera angående de olika styrkablarna

- *Motorantennens styrkabel (blå) leder + 12 volts likström när kanalväljaren slås på eller när radiomottagningsautomatik ATA, mottagning av alternativa frekvenser AF eller mottagning av trafikmeddelanden TA aktiverats.*
- *En motorantenn utan styrreläd osa kan inte anslutas till denna bilstereo.*
- *Om bilen har en FM/MW/LW-antenn som är inbyggd i sido- eller bakrutan, måste du ansluta motorantennens styrkabel (blå) eller tilbehörsströmkabeln (röd) till strömterminalen på antennförstärkaren. Din återförsäljare kan ge dig mer information.*

Varning
Om du har en motorantenn utan reläd osa kan antennen skadas om du ansluter enheten med den medföljande strömkabeln ⓑ.

Anslutning för minnesstöd
När du anslutit den gula, ingående strömkabeln försörjs minneskretsen med ström hela tiden, även när tändlåset slås ifrån.

Att observera angående högtalarnas anslutning

- *Slå av bilstereon innan du ansluter högtalarna.*
- *Anslut endast högtalare, vars impedans varierar från 4 till 8 ohm och som har tillräcklig effekthanteringskapacitet för att skydda högtalarna mot skador.*
- *Anslut inte något av högtalaruttagen till bilens chassi. Anslut inte heller uttagen på höger högtalare till uttagen på vänster högtalare.*
- *Anslut inte högtalarna parallellt.*
- *Anslut inte aktiva högtalare (med inbyggda slutsteg) till bilstereons högtalaruttag, eftersom de kan skada de aktiva högtalarna. Var noga med att bara ansluta passiva högtalare till dessa uttag.*

Ligações

Cuidado

- Este aparelho foi concebido para funcionar somente com corrente contínua de 12 V com negativo à massa.
- Tenha cuidado para que os fios não fiquem entalados entre os parafusos e a carroçaria do automóvel ou a caixa do aparelho, nem entre as peças móveis, por exemplo, as calhas dos bancos, etc.
- Ligue o cabo de alimentação de corrente ⓑ ao aparelho e aos alifalantes antes de o ligar ao conector de corrente auxiliar.
- **Ligue todos os cabos de massa num ponto de massa comum.**
- Ligue o cabo amarelo a um circuito eléctrico livre do automóvel, cuja potência nominal seja superior à dos fusíveis do aparelho. Se ligar este aparelho em série com outros componentes estéreo, a potência nominal do circuito eléctrico do automóvel onde os ligar tem de ser superior à soma da potência nominal dos fusíveis de todos os componentes individuais. Se não houver nenhum circuito eléctrico do automóvel com uma potência nominal tão elevada como a dos fusíveis do aparelho, ligue-o directamente à bateria. Se não estiver disponível nenhum circuito eléctrico do automóvel para ligação deste aparelho, ligue-o a um circuito eléctrico do automóvel com uma potência nominal superior à dos fusíveis do aparelho, de tal modo que, se o aparelho rebentar os fusíveis respectivos, nenhum outro circuito seja cortado.

Aviso sobre a instalação num automóvel sem posição ACC (acessórios) na chave de ignição

Verifique se carregou em (OFF) no aparelho durante dois segundos para desactivar o visor do relógio depois de ter desligado o motor.
Se carregar ligeiramente em (OFF), não desactiva o visor do relógio o que provoca o desgaste da bateria.

Notas sobre o exemplo de ligação

Notas sobre os fios de controlo

- *O fio de controlo da antena eléctrica (azul) fornece +12 V CC quando ligar o sintonizador ou quando activar as funções ATA (Activação automática do sintonizador), AF (frequência alternativa) ou TA (Informações de trânsito).*
- *Não pode utilizar uma antena eléctrica sem caixa de relé com este aparelho.*
- *Se o seu automóvel tiver uma antena de FM/MW/LW montada no vidro traseiro/lateral, tem de ligar o fio de controlo da antena eléctrica (azul) ou o fio de entrada de alimentação para os acessórios (vermelho) ao terminal de alimentação do intensificador do sinal da antena existente.*

Advertência
Se a antena eléctrica não tiver uma caixa de relé, o facto de ligar este aparelho com o cabo de alimentação ⓑ fornecido, pode provocar danos na antena.

Ligação para alimentação contínua da memória
Quando o fio amarelo de entrada de alimentação for ligado, os circuitos de memória ficarão com alimentação contínua, mesmo se a chave de ignição estiver desligada.

Notas sobre a ligação dos altifalantes

- *Antes de ligar os altifalantes, desligue o aparelho.*
- *Utilize altifalantes com impedância de 4 a 8 ohm, e com potência máxima admissível adequada. Caso contrário, os altifalantes poderão sofrer avarias.*
- *Não ligue os terminais do sistema de altifalantes ao chassis do automóvel, e não ligue os terminais do altifalante direito aos terminais do altifalante esquerdo.*
- *Não tente ligar os altifalantes em paralelo.*
- *Não ligue nenhum sistema de altifalantes activos (com amplificadores incorporados) aos terminais dos altifalantes do aparelho. Caso o faça, poderá avariar o sistema de altifalantes activos. Portanto, não se esqueça de ligar altifalantes passivos a estes terminais.*

Connection example

*1 ***Note for the aerial connecting***
If your car aerial is an ISO (International Organisation for Standardisation) type, use the supplied adaptor ⑥ to connect it.
First connect the car aerial to the supplied adaptor, then connect it to the aerial jack of the master unit.
*2 ***RCA pin cord (not supplied)***

Ejemplo de conexiones

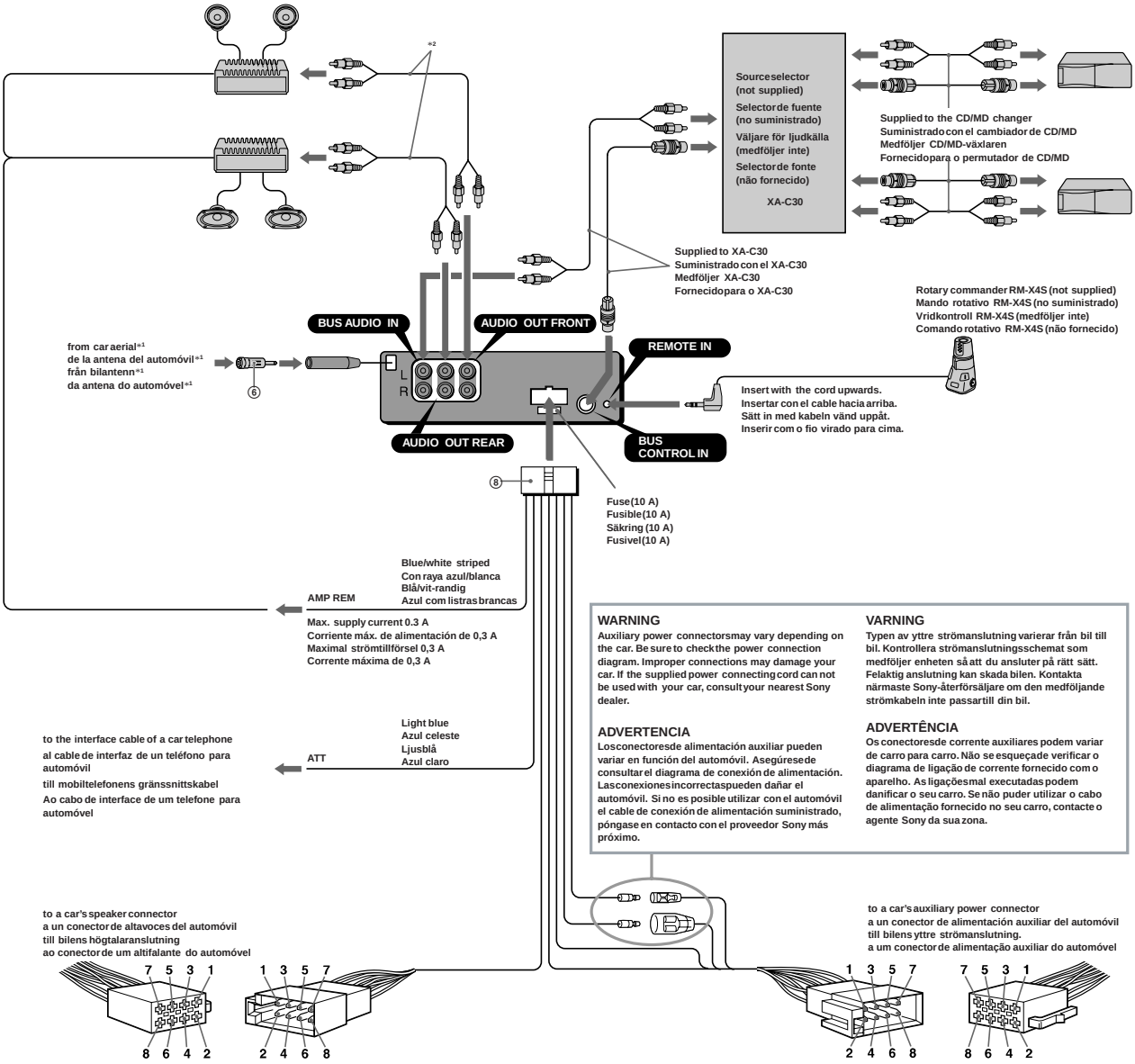
*1 ***Nota sobre la conexión de la antena***
Si la antena del automóvil es del tipo ISO (International Organization for Standardization), emplee el adaptador suministrado ⑥ para conectarla.
En primer lugar, conecte la antena del automóvil al adaptador suministrado y, a continuación, a la toma de antena de la unidad principal.
* ***Cable con clavijas RCA (no suministrado)***

Anslutningarna enligt exemplet

*1 ***Angående antennanslutning***
Om motorantennen är av ISO-typ (International Organization for Standardization), använder du medföljande adapter ⑥ för att ansluta den. Anslut först motorantennen till medföljande adapter och därefter till antennuttaget på huvudenheten.
*2 ***Kabel med RCA-kontakter (medföljer inte)***

Exemplo de ligações

*1 ***Nota referente à ligação da antena***
Se a antena do automóvel for uma antena de tipo ISO (International Organization for Standardization), utilize o adaptador fornecido ⑥ para fazer a ligação respectiva.
Ligue primeiro a antena do automóvel ao adaptador fornecido e depois à ficha tipo jack de antena do sistema principal.
*2 ***Cabo de terminais RCA (não fornecido)***


*2
Source selector (not supplied)
Selector de fuente (no suministrado)
Väljare för ljudkälla (medföljer inte)
Selector de fonte (não fornecido)
XA-C30
Supplied to the CD/MD changer
Suministrado con el cambiador de CD/MD
Medföljer CD/MD-växlaren
Fornecido para o permutador de CD/MD
Supplied to XA-C30
Suministrado con el XA-C30
Medföljer XA-C30
Fornecido para o XA-C30
Rotary commander RM-X4S (not supplied)
Mando rotativo RM-X4S (no suministrado)
Vridkontroll RM-X4S (medföljer inte)
Comando rotativo RM-X4S (não fornecido)
BUS AUDIO IN
AUDIO OUT FRONT
REMOTE IN
from car aerial*1
de la antena del automóvil*1
från bilantenn*1
da antena do automóvel*1
⑥
L
R
AUDIO OUT REAR
BUS CONTROL IN
Insert with the cord upwards.
Insertar con el cable hacia arriba.
Sätt in med kabeln vänd uppåt.
Inserir com o fio virado para cima.
⑧
Fuse (10 A)
Fusible (10 A)
Säkring (10 A)
Fusível (10 A)
Blue/white striped
Con raya azul/blanca
Blå/vit-randig
Azul com listras brancas
AMP REM
Max. supply current 0.3 A
Corriente máx. de alimentación de 0,3 A
Maximal strömtillförsel 0,3 A
Corrente máxima de 0,3 A
Light blue
Azul celeste
Ljusblå
Azul claro
ATT
to the interface cable of a car telephone
al cable de interfaz de un teléfono para automóvil
till mobiltelefonens gränssnittskabel
Ao cabo de interface de um telefone para automóvel
WARNING
Auxiliary power connectors may vary depending on the car. Be sure to check the power connection diagram. Improper connections may damage your car. If the supplied power connecting cord can not be used with your car, consult your nearest Sony dealer.
ADVERTENCIA
Los conectores de alimentación auxiliar pueden variar en función del automóvil. Asegúrese de consultar el diagrama de conexión de alimentación. Las conexiones incorrectas pueden dañar el automóvil. Si no es posible utilizar con el automóvil el cable de conexión de alimentación suministrado, póngase en contacto con el proveedor Sony más próximo.
VARNING
Typen av yttre strömanslutning varierar från bil till bil. Kontrollera strömanslutningsschemat som medföljer enheten så att du ansluter på rätt sätt. Felaktig anslutning kan skada bilen. Kontakta närmaste Sony-återförsäljare om den medföljande strömkabeln inte passar till din bil.
ADVERTÊNCIA
Os conectores de corrente auxiliares podem variar de carro para carro. Não se esqueça de verificar o diagrama de ligação de corrente fornecido com o aparelho. As ligações mal executadas podem danificar o seu carro. Se não puder utilizar o cabo de alimentação fornecido no seu carro, contacte o agente Sony da sua zona.
to a car's speaker connector
a un conector de altavoces del automóvil
till bilens högtalaranslutning
ao conector de um altifalante do automóvel
7 5 3 1
8 6 4 2
1 3 5 7
2 4 6 8
to a car's auxiliary power connector
a un conector de alimentación auxiliar del automóvil
till bilens yttre strömanslutning.
a um conector de alimentação auxiliar do automóvel
1 3 5 7
2 4 6 8
7 5 3 1
8 6 4 2

1	Purple Púrpura Violett Violeta	+	Speaker, Rear, Right Altavoz, parte posterior, derecho Högtalare, bakre, höger Altifalante, Parte de trás, Direito	5	White Blanco Vit Branco	+	Speaker, Front, Left Altavoz, parte frontal, izquierdo Högtalare, främre, vänster Altifalante, Parte da frente, Esquerdo
2		–	Speaker, Rear, Right Altavoz, parte posterior, derecho Högtalare, bakre, höger Altifalante, Parte de trás, Direito	6		–	Speaker, Front, Left Altavoz, parte frontal, izquierdo Högtalare, främre, vänster Altifalante, Parte da frente, Esquerdo
3	Grey Gris Grå Cinzento	+	Speaker, Front, Right Altavoz, parte frontal, derecho Högtalare, främre, höger Altifalante, Parte da frente, Direito	7	Green Verde Grön Verde	+	Speaker, Rear, Left Altavoz, parte posterior, izquierdo Högtalare, bakre, vänster Altifalante, Parte de trás, Esquerdo
4		–	Speaker, Front, Right Altavoz, parte frontal, derecho Högtalare, främre, höger Altifalante, Parte da frente, Direito	8		–	Speaker, Rear, Left Altavoz, parte posterior, izquierdo Högtalare, bakre, vänster Altifalante, Parte de trás, Esquerdo

Negative polarity positions 2, 4, 6, and 8 have striped cords.
Las posiciones de polaridad negativa 2, 4, 6 y 8 tienen cables con raya.
De negativa polpositionerna 2, 4, 6 och 8 har randiga kablar.
As posições 2, 4, 6 e 8 (polaridade negativa) têm cabos às riscas.

4	Yellow Amarillo Gul Amarelo	continuous power supply suministro de alimentación continua kontinuerlig strömförsörjning alimentação de corrente contínua	7	Red Rojo Röd Vermelho	switched power supply suministro conmutado de alimentación switchad strömförsörjning alimentação de corrente comutada
5	Blue Azul Blå Azul	power aerial control control de antena motorizada styrning av motorantenn antena eléctrica	8	Black Negro Svart Preto	earth toma de tierra jord Terra
6	Orange/White Naranja/blanco Orange/vit Cor de laranja/branco	switched illumination power supply fuente de alimentación de iluminación conmutada Switchad strömförsörjning till belysning fonte de alimentação comutada para iluminação			

Positions 1, 2 and 3 do not have pins.
Las posiciones 1, 2 y 3 no disponen de terminales.
Positionerna 1, 2 och 3 saknar stift.
As posições 1, 2 e 3 não têm terminais.

Power connection diagram

Auxiliary power connector may vary depending on the car. Check your car's auxiliary power connector diagram to make sure the connections match correctly. There are three basic types (illustrated below). You may need to switch the positions of the red and yellow leads in the car stereo's power connecting cord.
After matching the connections and switched power supply leads correctly, connect the unit to the car's power supply. If you have any questions and problems connecting your unit that are not covered in this manual, please consult the car dealer.

Diagrama de conexión de alimentación

El conector de alimentación auxiliar puede variar en función del automóvil. Compruebe el diagrama del conector de alimentación auxiliar del automóvil para asegurarse de que las conexiones coinciden correctamente. Existen tres tipos básicos, ilustrados a continuación. Es posible que sea necesario cambiar las posiciones de los cables rojo y amarillo del cable de conexión de alimentación del sistema estéreo del automóvil. Después de hacer coincidir correctamente las conexiones y los cables de alimentación conmutada, conecte la unidad al suministro de alimentación del automóvil. Si desea realizar alguna consulta o solucionar algún problema referentes a la conexión de la unidad que no aparezcan en este manual, consulte con el concesionario automovilístico.

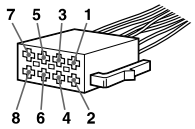
Strömanslutningsschema

Typen av yttre strömanslutning varierar från bil till bil. Kontrollera schemat till strömanslutningen są att du ansluter pą rätt sätt. Det finns tre grundläggande anslutningstyper (visas nedan). Du kan behöva skifta plats pą bilstereons röda och gula strömförsörjningskablar.
Koppla kablarna för kontinuerlig respektive switchad strömförsörjning pą rätt sätt och anslut sedan enheten till bilens strömanslutning. Om du får problem eller har frągor som inte besvaras i den här bruksanvisningen kan du kontakta biląterförsäljaren.

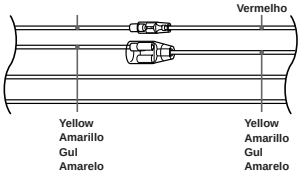
Diagrama de ligação de corrente

O conector auxiliar de corrente pode variar de carro para carro. Verifique o diagrama do conector auxiliar de corrente para se certificar de que as ligações estão bem feitas. Existem três tipos de conectores (ilustrados abaixo).
Depois de fazer a correspondência entre as ligações e os terminais de alimentação de corrente comutada, ligue o aparelho à fonte de alimentação do carro. Se tiver alguma dúvida ou problema relacionado com o aparelho que não esteja incluído neste manual, consulte o concessionário.

Auxiliary power connector
Conector de alimentación auxiliar
Yttre strömanslutning
Conector de corrente auxiliar

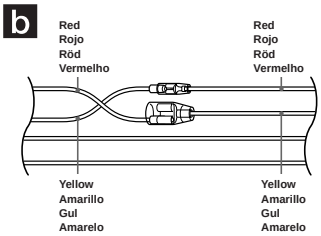


a



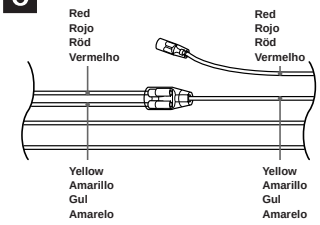
4	Yellow Amarillo Gul Amarelo	continuous power supply suministro de alimentación continua kontinuerlig strömförsörjning alimentação de corrente contínua
7	Red Rojo Röd Vermelho	switched power supply suministro conmutado de alimentación switchad strömförsörjning alimentação de corrente comutada

b



4	Yellow Amarillo Gul Amarelo	switched power supply suministro conmutado de alimentación switchad strömförsörjning alimentação de corrente comutada
7	Red Rojo Röd Vermelho	continuous power supply suministro de alimentación continua kontinuerlig strömförsörjning alimentação de corrente contínua

c



the car without ACC position
automóvil sin posición ACC
bil utan ACC-läge
o carro sem posição ACC

Connection diagram

Diagrama de conexiones

Kopplingsschema

Diagrama de ligações

Equipment used in illustrations (not supplied)

Equipo utilizado en las ilustraciones (no suministrado)

Utrustning som visasi illustrationer (medföljer inte)

Equipamento utilizado nas ilustrações (não fornecido)

Front speaker
Altavoz delantero
Främre högtalare
Altifalante dianteiro

Rear speaker
Altavoz trasero
Bakre högtalare
Altifalante traseiro

Power amplifier
Amplificador de potencia
Effektförstärkare
Amplificador de potência

CD/MD changer
Cambiador de CD/MD
CD/MD-skivväxlare
Permutador CD/MD

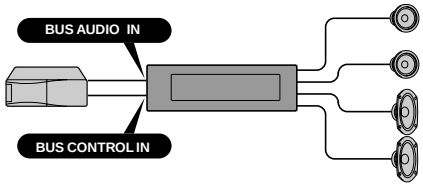
For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.

Si desea conectar dos o más cambiadores, necesitará el selector de fuente XA-C30 (opcional).

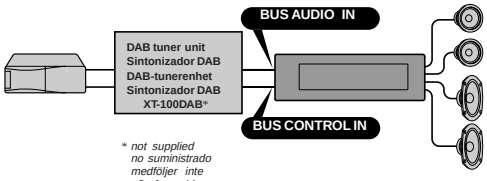
För anslutning av två eller flera växlare krävs väljarna XA-C30 (tillval).

Para ligar um ou mais permutadores, é necessário o selector de fonte XA-C30 (opcional).

A

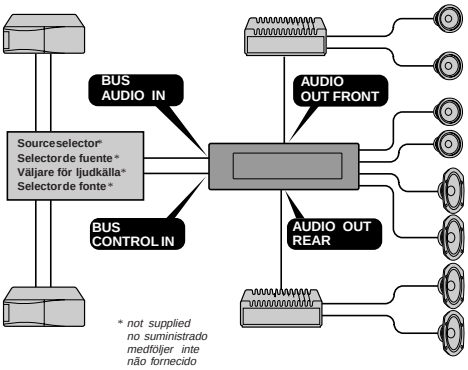


B



** not supplied*
no suministrado
medföljer inte
não fornecido

C



** not supplied*
no suministrado
medföljer inte
não fornecido

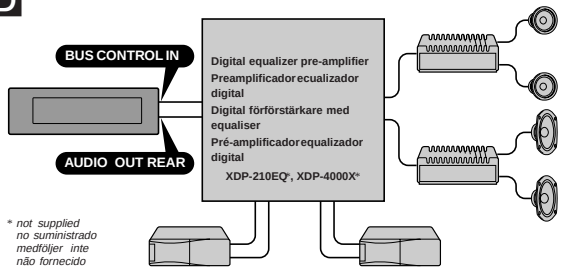
Note
Be sure to connect the earth cord before connecting the amplifier.

Nota
Asegúrese de conectar primero el cable de puesta a masa antes de realizar la conexión al amplificador.

Observera
Var noga med att först ansluta jorden, innan du ansluter förstärkaren.

Nota
Antes de fazer a ligação ao amplificador tem de ligar primeiro o cabo de ligação à massa.

D



** not supplied*
no suministrado
medföljer inte
não fornecido

When connecting a digital equalizer pre-amplifier (XDP-210EQ, XDP-4000X)
- *Use an optional exterior amplifier. The built-in amplifier of this unit can not be used in this case. For details, refer to the Installation/Connections manual XDP-210EQ,XDP-4000X.*
- *For details about the connection, refer to the Instllation/Connections manual XDP-210EQ,XDP-4000X. (not supplied)*

Si conecta un preamplificador ecualizador digital (XDP-210EQ, XDP-4000X.)
- *Utilice un amplificador opcional externo. El amplificador incorporado de esta unidad no puede utilizarse en este caso. Para más información, consulte el manual de instalación/conexiones de la unidad XDP-210EQ, XDP-4000X.*
- *Para obtener información detallada sobre la conexión, consulte el manual de instalación/conexiones de la unidad XDP-210EQ,XDP-4000X. (no suministrada)*

När du ansluter en digital förförstärkare med equaliser (XDP-210EQ, XDP-4000X.)
- *Använd en valfri extern förstärkare. Den inbyggda förstärkaren kan inte användas i detta fall. Mer information finns i Montering/ Anslutninghandboken XDP-210EQ,XDP-4000X.*
- *Mer information om hur du ansluter utrustning finns i Montering/Anslutninghandboken XDP-210EQ,XDP-4000X. (medföljer inte)*

Se ligar um pré-amplificador equalizador digital (XDP-210EQ, XDP-4000X.)
- *Utilize um amplificador exterior opcional. O amplificador integrado neste aparelho não pode ser utilizado neste caso. Para obter mais informações, consulte o manual de Instalação/ Ligações XDP-210EQ,XDP-4000X.*
- *Para obter mais informações sobre a ligação, consulte o manual de Instalação/ Ligações do XDP-210EQ,XDP-4000X. (não fornecido)*

(XR-M550)

Connections

Cautions

- This unit is designed for negative ground 12 V DC operation only.
- Be careful not to pinch any wires between the screw and the body of the car, or this unit, or between any moving parts such as the seat railing, etc.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- **Run all ground wires to a common ground surface.**
- Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating. If you connect this unit in series with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual component's fuse rating. If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery. If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.
- When installing a car without ACC (accessory) position on the ignition key switch, connect the red power input lead to the + 12 V power terminal which is energized at all times with the yellow lead.

Warning when installing in a car without ACC (accessory) position on the ignition key switch

Be sure to press (OFF) on the unit for two seconds to turn off the clock display after turned off the engine.
When you press (OFF) momentarily, the clock display does not turn off and this causes battery wear.

Reset button

When the installation and connections are over, be sure to press the reset button with a ball-point pen, etc.

Notes on the control and power supply leads

- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation) function.*
- *When your car has built-in FM/AM antenna in the rearside glass, it is necessary to connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.*
- *A power antenna without relay box cannot be used with this unit.*

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection

- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
- *Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.*

Connexions

Précautions

- Cet appareil est conçu pour fonctionner sur tension continue de 12 V avec masse négative.
- Veillez à ne coincer aucun fil entre la vis et la carrosserie ou cet appareil ou aucun élément mobile comme les glissières du siège, etc.
- Brancher les fils d'entrée d'alimentation **jaune** et **rouge** seulement après avoir terminé tous les autres branchements.
- Veiller à ne pas raccorder le fil rouge d'entrée d'alimentation à la borne positive de 12 V qui est alimentée quand la clé de contact est sur la position accessoires.
- **Rassembler tous les fils de terre en un point de masse commun.**
- Brancher le câble jaune à un circuit libre de la voiture dont la capacité nominale est supérieure à la capacité du fusible de l'appareil. Si vous branchez cet appareil en série avec d'autres composants stéréo, le circuit de la voiture auxquels ils sont raccordés doit afficher une capacité nominale supérieure à la somme des capacités individuelles de chaque composant. S'il n'y a pas de circuits de voiture affichant une capacité égale à la capacité du fusible de l'appareil, brancher l'appareil directement à la batterie. Si aucun circuit de voiture n'est disponible pour connecter cet appareil, brancher l'appareil à un circuit de voiture supérieur à la capacité du fusible de l'appareil de telle sorte que si l'appareil grille son fusible, aucun autre circuit ne soit coupé.
- En cas d'installation dans une voiture dont le contact ne comporte pas de position ACC (accessoires), brancher le fil d'entreé d'alimentation rouge à la borne + 12 V qui est alimenteé en permanence par le fil jaune.

Avertissement en cas d'installation dans une voiture dont le contact ne comporte pas de position ACC (accessoires)

N'oubliez pas d'appuyer sur le bouton (OFF) de l'appareil pendant deux secondes après avoir coupé le moteur de façon à désactiver l'affichage de l'horloge.
Si vous appuyez brièvement sur (OFF), l'affichage de l'horloge n'est pas désactivé, ce qui provoque une usure de la batterie.

Touche de réinitialisation

Quand l'installation et les connexions sont terminées, appuyer sur la touche de réinitialisation avec un stylo à bille ou un objet pointu.

Remarques sur les câbles de commande et d'alimentation

- *Le fil de commande de l'antenne électrique (bleu) fournit une alimentation de + 12 V CC lorsque vous mettez le syntoniseur sous tension ou que vous sélectionnez la fonction d'activation automatique (ATA) de la radio.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, il est nécessaire de raccorder le fil de commande de l'antenne électrique (bleu) ou le fil d'entrée d'alimentation des accessoires (rouge) de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.*
- *Une antenne électrique sans boîtier de relais ne peut être utilisée avec cet appareil.*

Connexion pour la conservation de la mémoire

Lorsque le fil d'entrée d'alimentation jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur la connexion des haut-parleurs

- *Avant de raccorder les haut-parleurs, mettre l'appareil hors tension.*
- *Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.*
- *Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne pas tenter de raccorder les haut-parleurs en parallèle.*
- *Ne pas raccorder des haut-parleurs actifs (avec amplificateurs intégrés) aux bornes de haut-parleur de l'appareil sous peine de les endommager. Veiller à raccorder des haut-parleurs passifs à ces bornes.*

Conexiones

Precauciones

- Esta unidad ha sido diseñada para alimentarse con 12 V CC, negativo a masa, solamente.
- Tenga cuidado de no atrapar ningún cable entre algún tornillo y la carrocería del automóvil o esta unidad o entre las partes móviles, como por ejemplo los raíles del asiento, etc.
- Conecte los cables conectores de alimentación **amarillo** y **rojo** solamente después de haber conectado los demás.
- Cerciórese de conectar el cable conector de alimentación rojo a un terminal de 12 V positivo que se active al poner la llave de encendido en la posición para accesorios.
- **Conecte todos los conductores de puesta a masa a un punto común.**
- Conecte el cable amarillo a un circuito libre del automóvil que tenga una capacidad superior a la del fusible de la unidad. Si conecta esta unidad en serie con otros componentes estereofónicos, el circuito del automóvil al que se encuentran conectados debe tener una capacidad superior a la suma de las capacidades de los fusibles de cada componente. Si ningún cicuito del automóvil tiene una capacidad tan alta como la del fusible de la unidad, conecte ésta directamente a la batería. Si el automóvil no dispone de ningún circuito para conectar esta unidad, conéctela a un circuito del automóvil con capacidad superior a la del fusible de la unidad, de forma que si se funde el fusible de ésta, no se interrumpa ningún otro circuito.
- Si realiza la instalación en un automóvil que no disponga de posición ACC (auxiliar) en el interruptor de la llave de encendido, conecte el cable rojo de entrada de alimentación al terminal de alimentación de +12V que recibe energía permanentemente; para ello, utilice el cable amarillo.

Advertencia sobre la instalación en un automóvil que no disponga de posición ACC (accesorios) en el interruptor de la llave de encendido

Asegúrese de presionar (OFF) en la unidad durante dos segundos para desactivar la indicación del reloj una vez apagado el motor.
Si presiona (OFF) momentáneamente, la indicación del reloj no se desactivará y esto causará el desgaste de la batería.

Botón de restauración

Cuando finalice la instalación y las conexiones, cerciórese de presionar el botón de restauración con un bolígrafo, etc.

Notas sobre los cables de control y de fuente de alimentación

- *El conductor de control (azul) de la antena motorizada suministra + 12 V CC al activar el sintonizador o la función ATA (activación automática del sintonizador).*
- *Si se ha instalado una antena de recepción de FM/AM en el cristal trasero lateral del automóvil, es necesario conectar el cable de control de la antena motorizada (azul) o el cable auxiliar de entrada de alimentación (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener información detallada, consulte a su proveedor.*
- *Con esta unidad no podrá emplearse una antena motorizada desprovista de caja de relé.*

Conexión para protección de la memoria

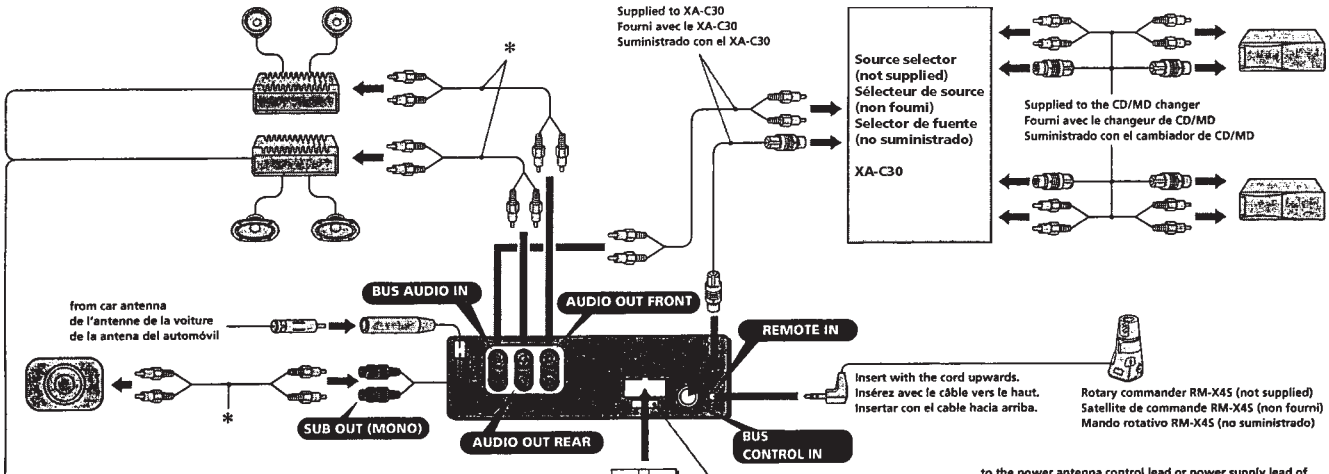
Si conecta el cable de entrada de alimentación amarillo, el circuito de la memoria siempre recibirá alimentación, aunque ponga la llave de encendido en la posición de apagado.

Notas sobre la conexión de los altavoces

- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 Ohmios, y con la potencia máxima admisible adecuada, ya que de lo contrario podría dañarlos.*
- *No conecte los terminales del sistema de altavoces al chasis del automóvil, ni los del altavoz izquierdo a los del derecho.*
- *No intente conectar los altavoces en paralelo.*
- *No conecte altavoces activos (con amplificadores incorporados) a los terminales de altavoces de la unidad. Si lo hiciese, podría dañar tales altavoces. Por lo tanto, cerciórese de conectar altavoces pasivos a estos terminales.*

Connection example
Exemple de connection
Ejemplo de conexiones

* RCA pin cord (not supplied)
Cordon à broche RCA (non fourni)
Cable con pines RCA (no suministrado)



Blue/white striped
Rayé bleu/blanc
Con raya azul/blanca

AMP REM

Max. supply current 0.3 A
Courant max. fourni 0,3 A
Corriente máx. de alimentación de 0,3 A

To AMP REMOTE IN of an optional power amplifier.
This connection is only for amplifiers. Connecting any other system may damage the unit.

Pour effectuer le raccordement à AMP REMOTE IN de l'amplificateur de puissance en option.
Cette connexion s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.

Para conectar a AMP REMOTE IN del amplificador de potencia opcional.
Esta conexión es sólo para amplificadores.
La conexión de cualquier otro sistema puede dañar la unidad.

Blue
Bleu
Azul

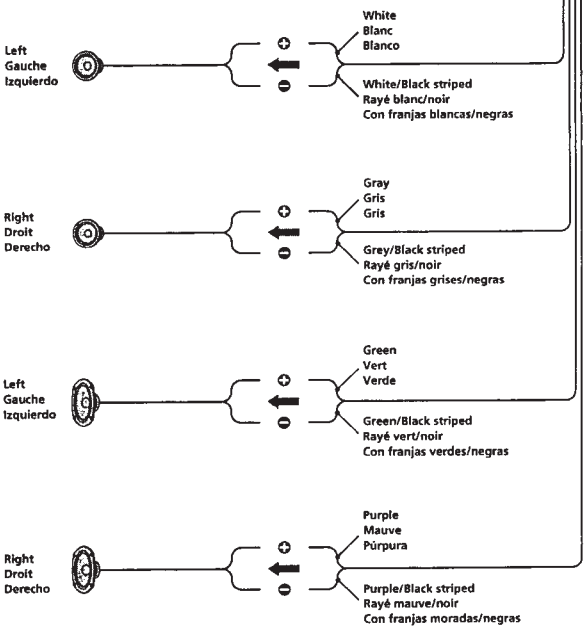
ANT REM

Max. supply current 0.1 A
Courant max. fourni 0,1 A
Corriente máx. de alimentación de 0,1 A

to the power antenna control lead or power supply lead of antenna booster amplifier
Notes
- *It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.*
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne
Remarques
- *Il n'est pas nécessaire de raccorder ce fil s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir les "Remarques sur les câbles de commande et d'alimentation".*

al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de antena
Notas
- *Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.*
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero/lateral, consulte "Notas sobre conductores de control".*



Red
Rouge
Rojo

to the +12 V power terminal which is energized in the accessory position of the ignition key switch
Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times. Be sure to connect the black ground to it first.*
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

à la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires
Remarques
- *S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est en permanence sous tension. Veillez à raccorder le fil noir en premier lieu.*
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir les "Remarques sur les câbles de commande et d'alimentation".*

a un terminal de alimentación de +12 V que se activa en la posición para accesorios de la llave de encendido
Notas
- *Si no existe posición para accesorios, realice la conexión al terminal de alimentación (batería) de +12 V que reciba energía permanentemente. Asegúrese de conectar primero a este terminal el conductor de puesta a masa negro.*
- *Si el automóvil incorpora una antena de recepción de FM/MW en el cristal trasero/lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

Sky blue
Bleu ciel
Azul celeste

ATT

to the interface cable of a car telephone
vers le cordon de liaison d'un téléphone de voiture
al cable de interfaz de un teléfono para automóvil

to a metal surface of the car
First connect the black ground lead, then connect the yellow and red power input leads.
vers un point métallique de la voiture
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.
a un punto metálico del automóvil
En primer lugar conecte el conductor de puesta a masa negro y, a continuación, los cables de entrada de alimentación amarillo y rojo.

Black
Noir
Negro

Yellow
Jaune
Amarillo

to the +12 V power terminal which is energized at all times
Be sure to connect the black ground to it first.
à la borne +12 V qui est alimentée en permanence
Raccordez d'abord le fil de masse noir.
a un terminal de alimentación de +12V que esté permanentemente energizado
Asegúrese de conectar primero a este terminal el conductor de puesta a masa negro.

Orange/white striped
Rayé orange/blanc
Con raya naranja/blanca

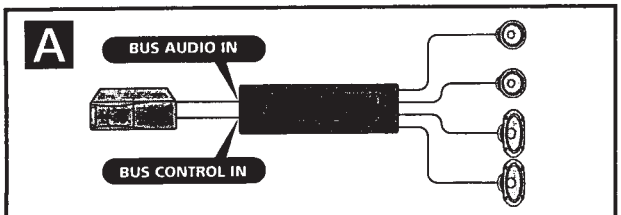
ILLUMINATION

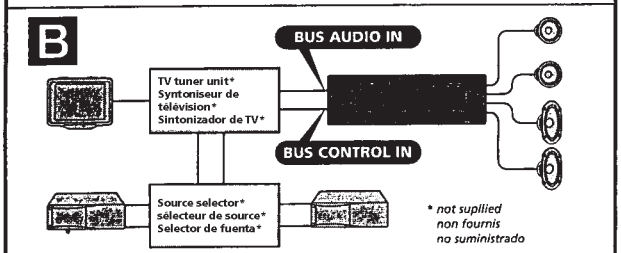
to a car's illumination signal
Be sure to connect the black ground to it first.
au signal d'éclairage de la voiture
Raccordez d'abord le fil de masse noir.
a una señal de iluminación del automóvil
Asegúrese de conectar primero a este terminal el conductor de puesta a masa negro.

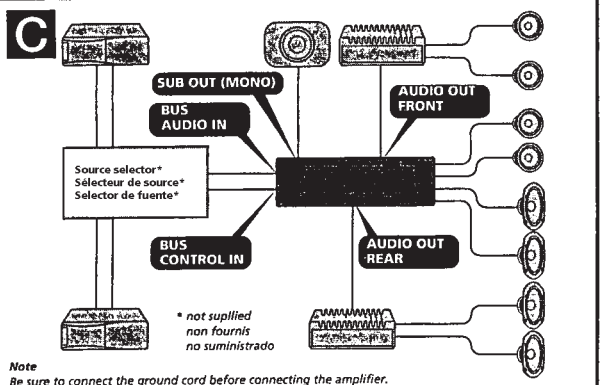
Connection diagram
Schéma de connexion
Diagrama de conexiones

Equipment used in illustrations (not supplied)
Appareils utilisés dans les illustrations (non fournis)
Equipo utilizado en las ilustraciones (no suministrado)

For connecting two or more changers, the source selector XA-C30 (optional) is necessary.
Dans le cas du raccordement de deux changeurs ou plus, le sélecteur de source XA-C30 (option) est indispensable.
Si desea conectar dos o más cambiadores, necesitará el selector de fuente XA-C30 (opcional).



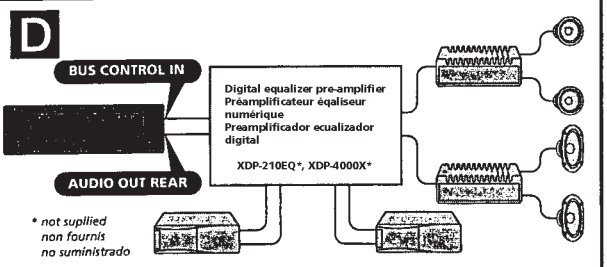




Note
Be sure to connect the ground cord before connecting the amplifier.

Remarque
Raccordez d'abord le fil de masse avant de connecter l'amplificateur.

Nota
Asegúrese de conectar primero el cable de puesta a masa antes de realizar la conexión al amplificador.



When connecting a digital equalizer pre-amplifier (XDP-210EQ, XDP-4000X)
- *Use an optional exterior amplifier. The built-in amplifier of this unit can not be used in this case. For details, refer to the Installation/Connections manual XDP-210EQ, XDP-4000X.*
- *For details about the connection, refer to the Instllation/ Connections manual XDP-210EQ, XDP-4000X. (not supplied)*

Lorsque vous raccordez un préamplificateur égaliseur numérique (XDP-210EQ, XDP-4000X)
- *Utilisez un amplificateur extérieur optionnel. L'amplificateur intégré dans cet appareil ne peut être utilisé dans ce cas. Pour plus de détails, reportez-vous au mode d'emploi Installation/Connexions XDP-210EQ, XDP-4000X.*
- *Pour plus de détails concernant le raccordement, reportez-vous au mode d'emploi Installation/ Connexions XDP-210EQ, XDP-4000X. (non fourni).*

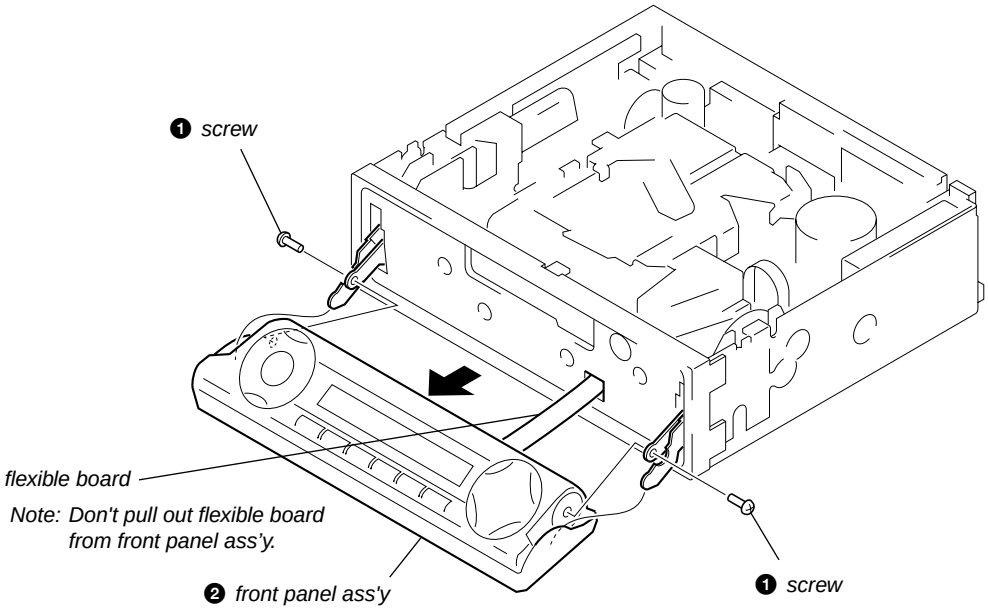
Si conecta un preamplificador ecualizador digital (XDP-210EQ, XDP-4000X.)
- *Utilice un amplificador opcional externo. El amplificador incorporado de esta unidad no puede utilizarse en este caso. Para más información, consulte el manual de instalación/conexiones de la unidad XDP-210EQ, XDP-4000X.*
- *Para obtener información detallada sobre la conexión, consulte el manual de instalación/conexiones de la unidad XDP-210EQ, XDP-4000X. (no suministrada)*

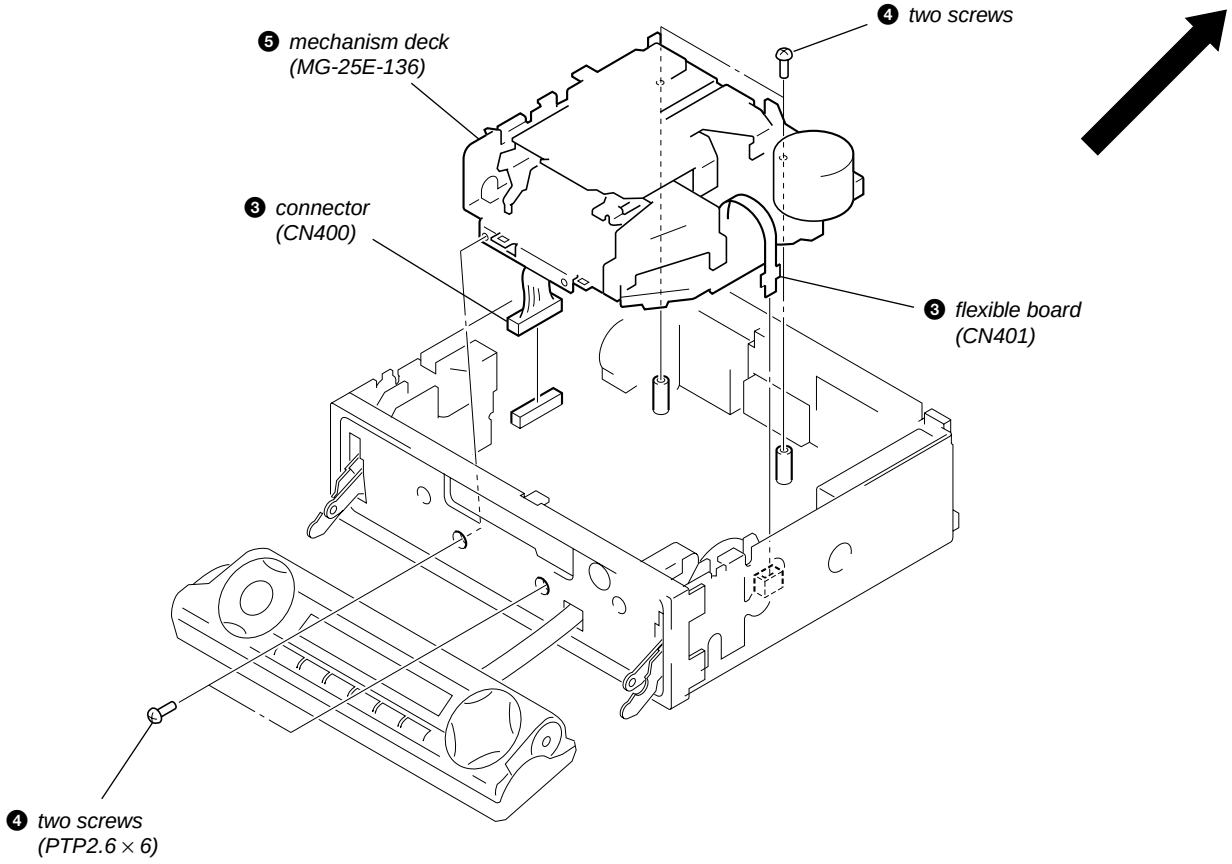
SECTION 3
DISASSEMBLY

- **See page 3 for Servicing Notes.**

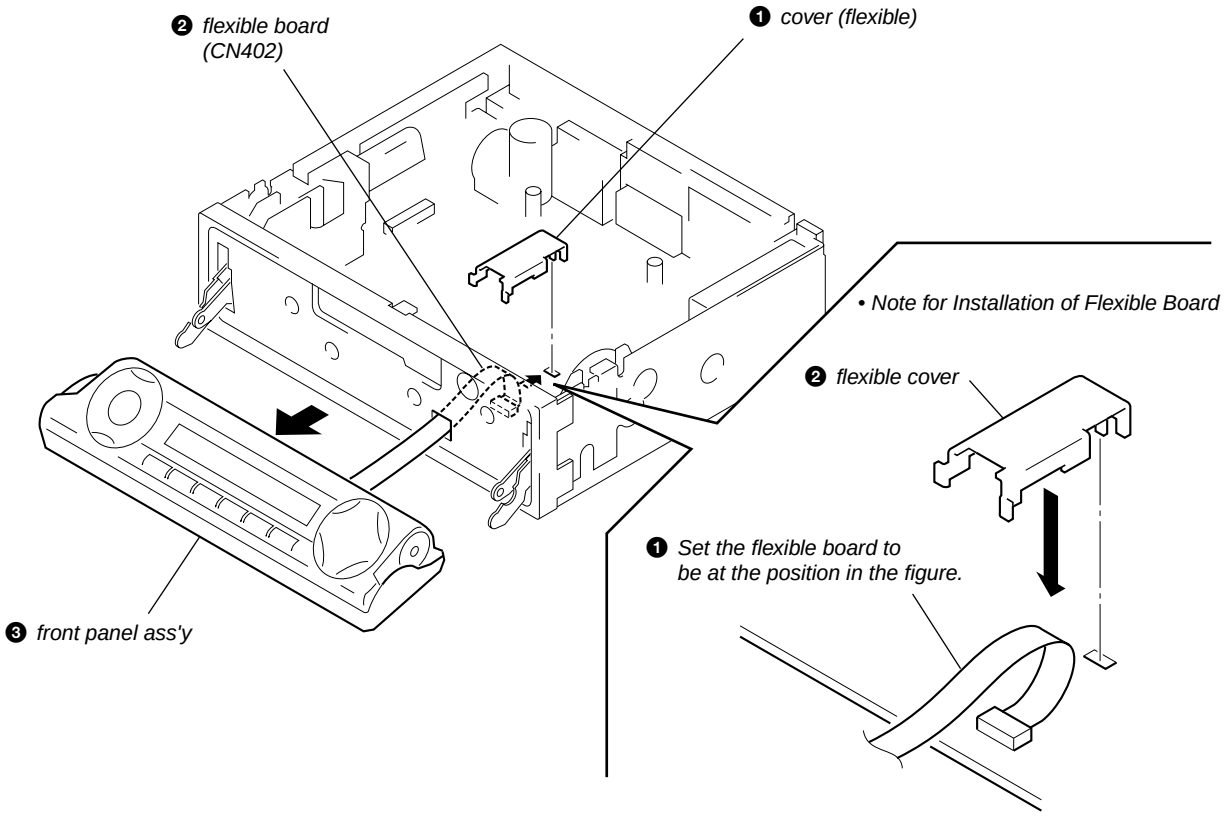
Note: Follow the disassembly procedure in the numerical order given.

MECHANISM DECK (MG-25E-136)

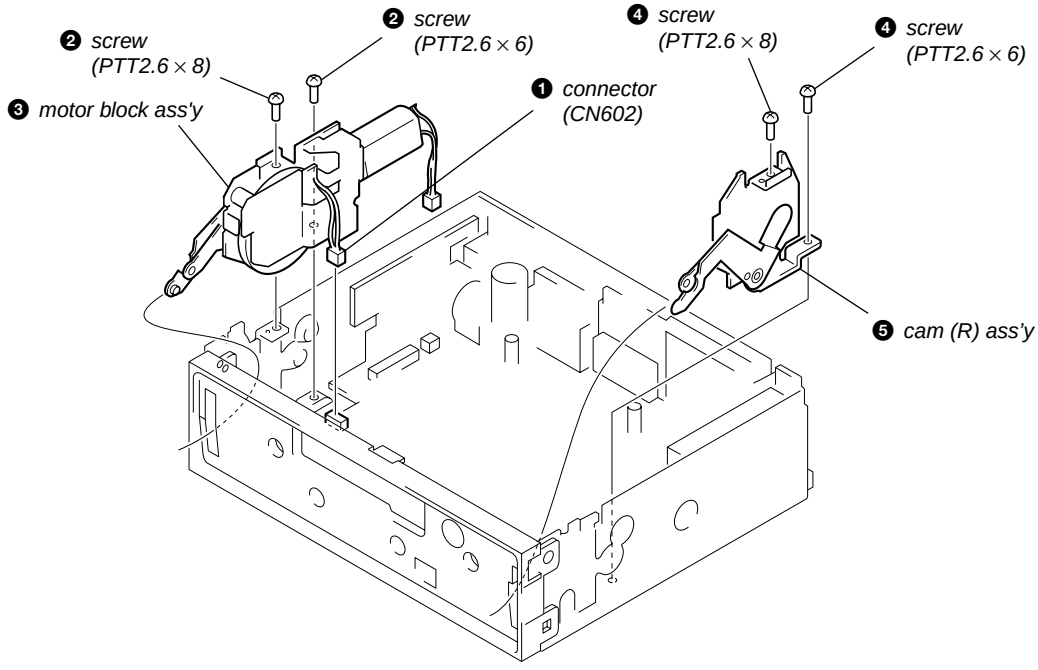




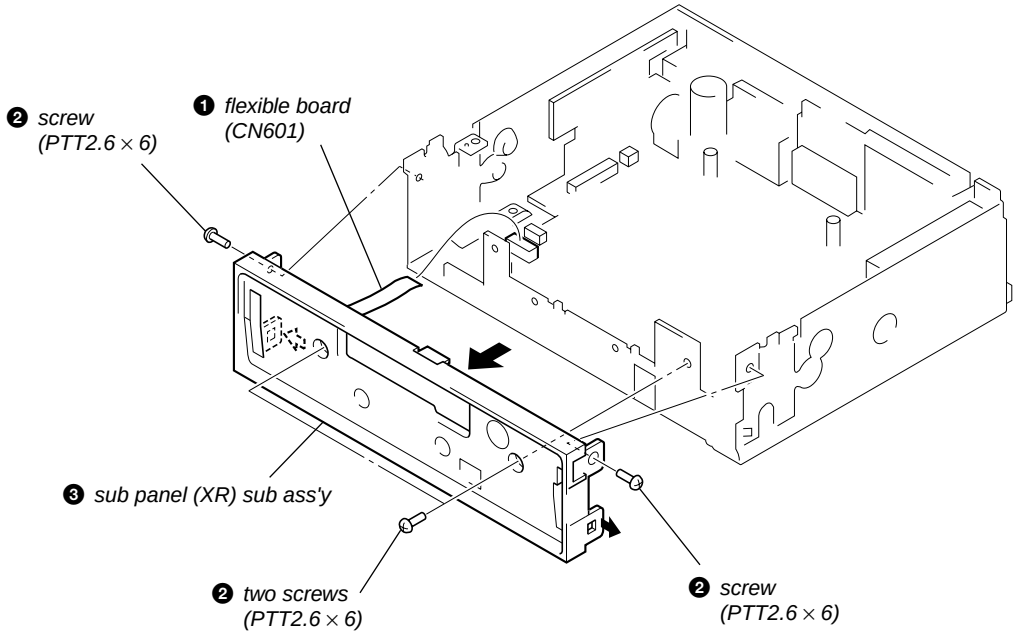
FRONT PANEL ASS'Y


❷ flexible board (CN402)
❶ cover (flexible)
• Note for Installation of Flexible Board
❷ flexible cover
❶ Set the flexible board to be at the position in the figure.
❸ front panel ass'y

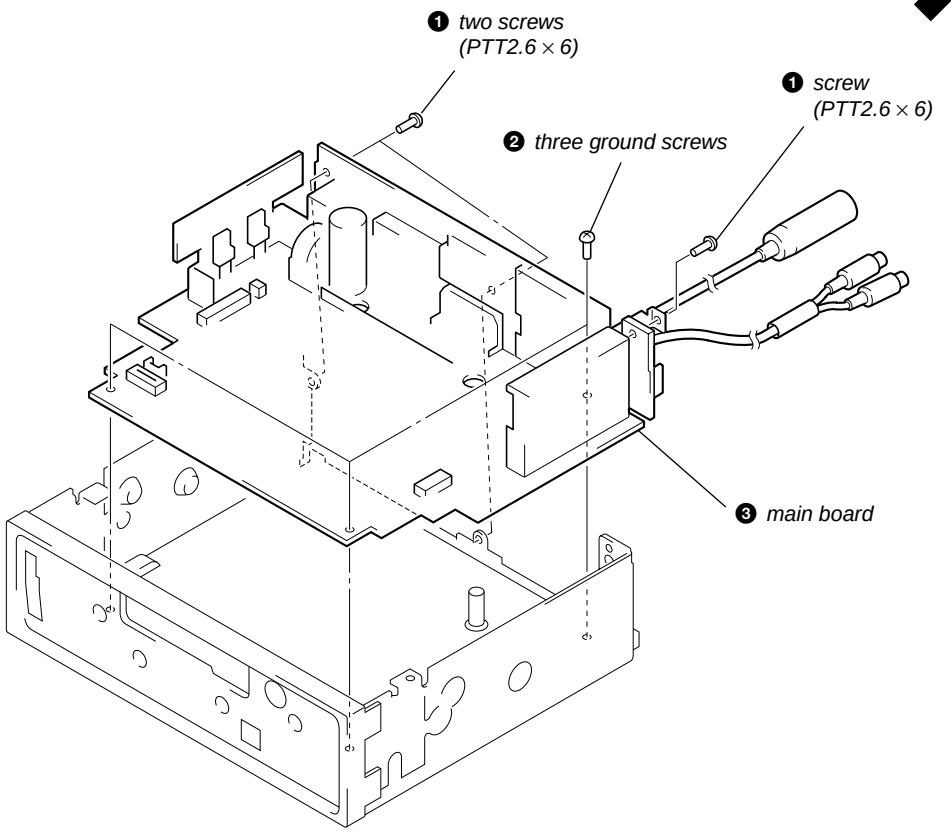
MOTOR BLOCK ASS'Y, CAM (R) ASS'Y



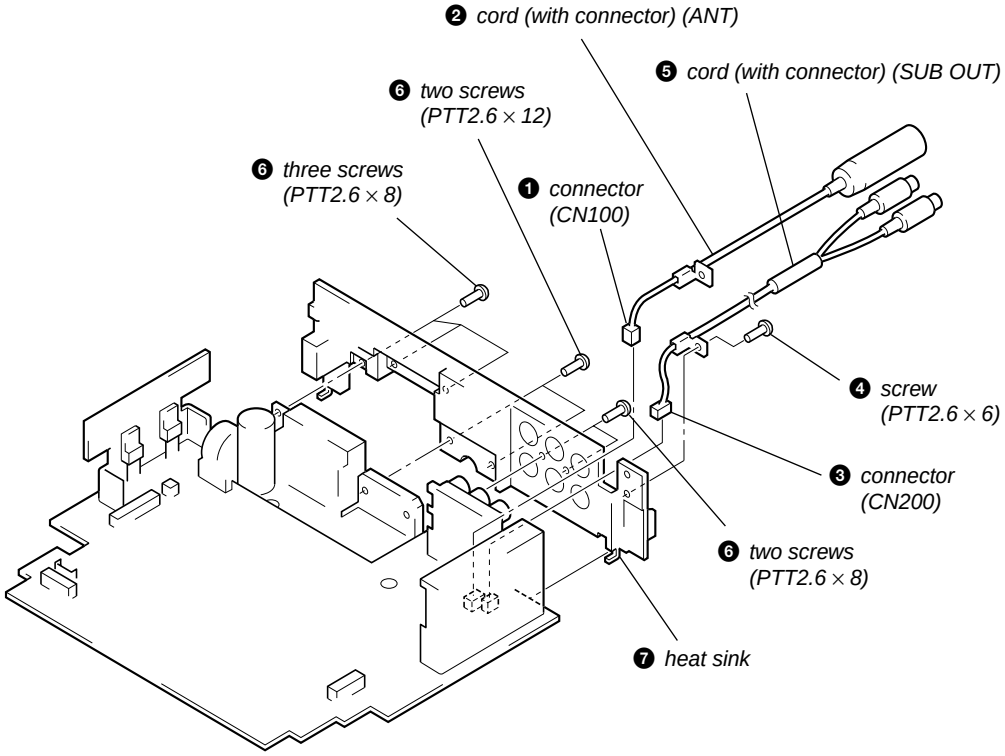
SUB PANEL (XR) SUB ASS'Y



MAIN BOARD



HEAT SINK

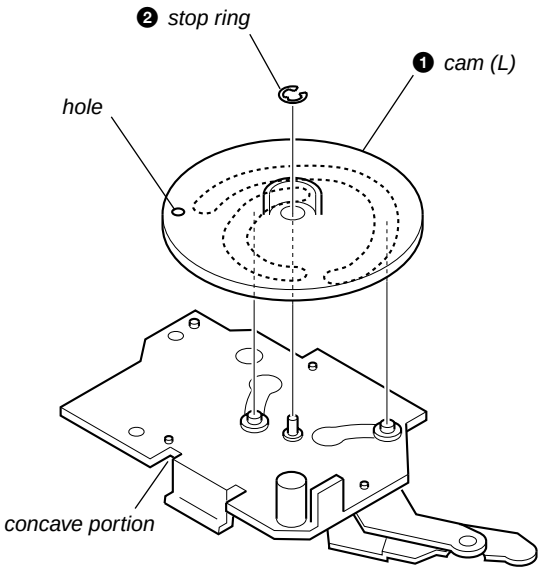

❷ cord (with connector) (ANT)
❺ cord (with connector) (SUB OUT)
❻ two screws (PTT2.6 × 12)
❻ three screws (PTT2.6 × 8)
❶ connector (CN100)
❹ screw (PTT2.6 × 6)
❸ connector (CN200)
❻ two screws (PTT2.6 × 8)
❼ heat sink

SECTION 4
ASSEMBLY

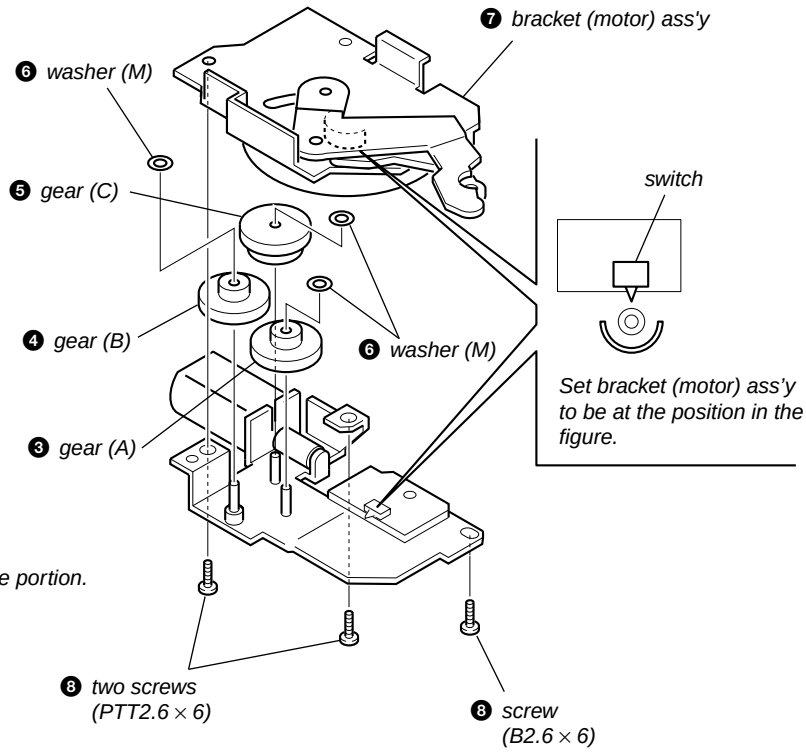
Note: Follow the assembly procedure in the numerical order given.

4-1. FRONT PANEL MACHINERY

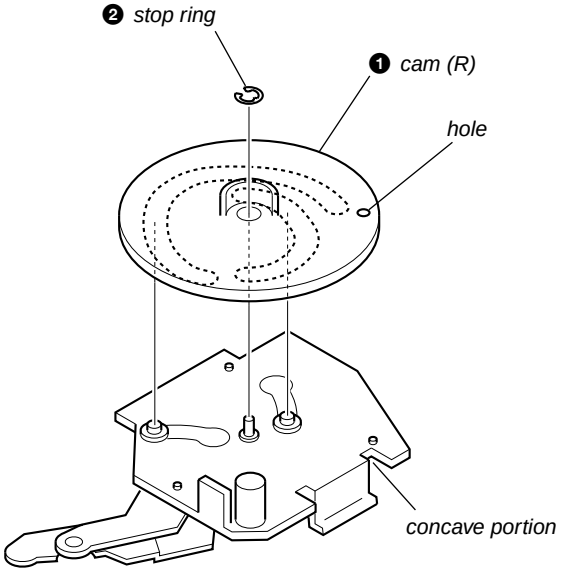
MOTOR BLOCK ASS'Y



Note: When installing cam (L), adjust the hole and concave portion.

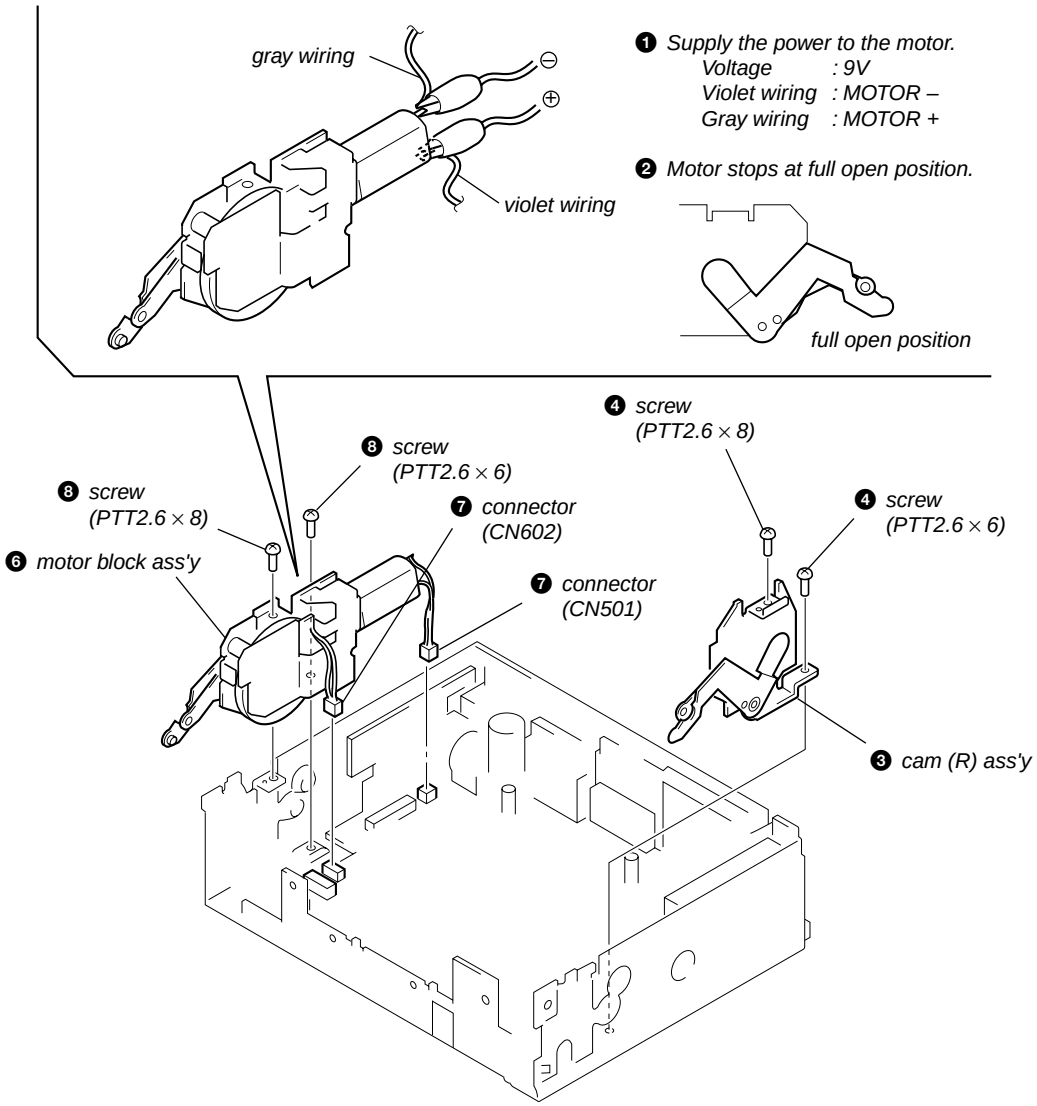

❼ bracket (motor) ass'y
❻ washer (M)
switch
❺ gear (C)
❹ gear (B)
❻ washer (M)
❸ gear (A)
Set bracket (motor) ass'y to be at the position in the figure.
❽ two screws (PTT2.6 × 6)
❽ screw (B2.6 × 6)

CAM (R) ASS'Y



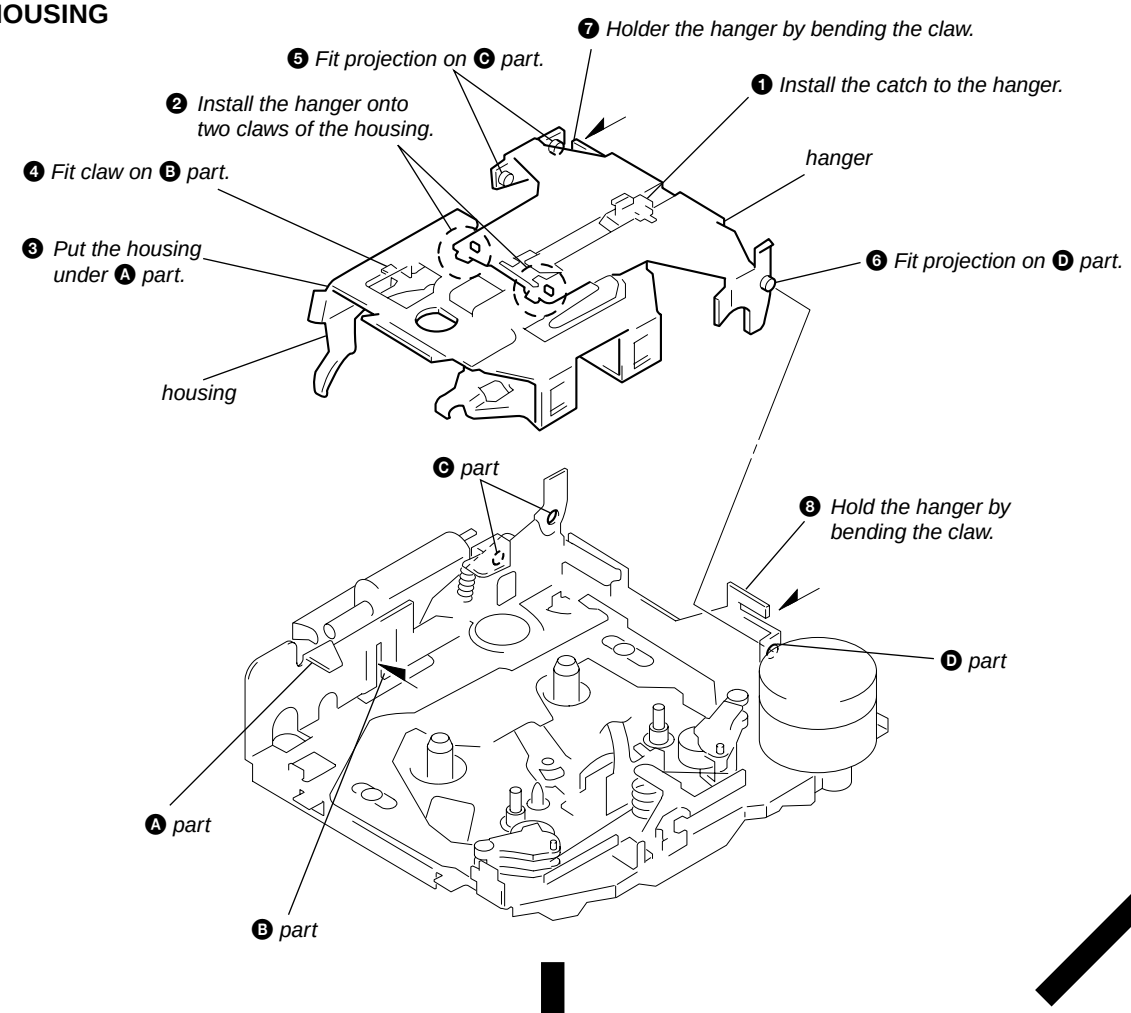
Note: When installing cam (R), adjust the hole and concave portion.

CAM (R) ASS'Y, MOTOR BLOCK ASS'Y

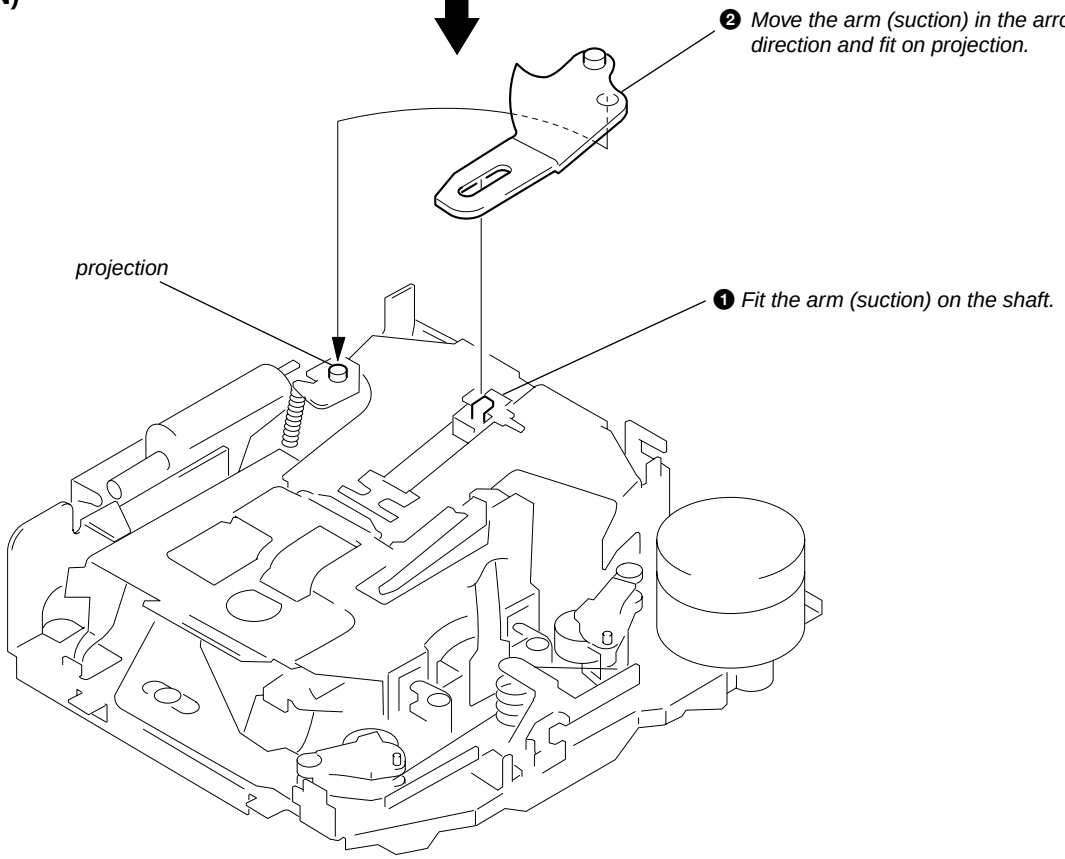

gray wiring
violet wiring
❶ Supply the power to the motor.
Voltage : 9V
Violet wiring : MOTOR –
Gray wiring : MOTOR +
❷ Motor stops at full open position.
full open position
❹ screw (PTT2.6 × 8)
❽ screw (PTT2.6 × 6)
❽ screw (PTT2.6 × 8)
❼ connector (CN602)
❹ screw (PTT2.6 × 6)
❻ motor block ass'y
❼ connector (CN501)
❸ cam (R) ass'y

4-2. MECHANISM DECK

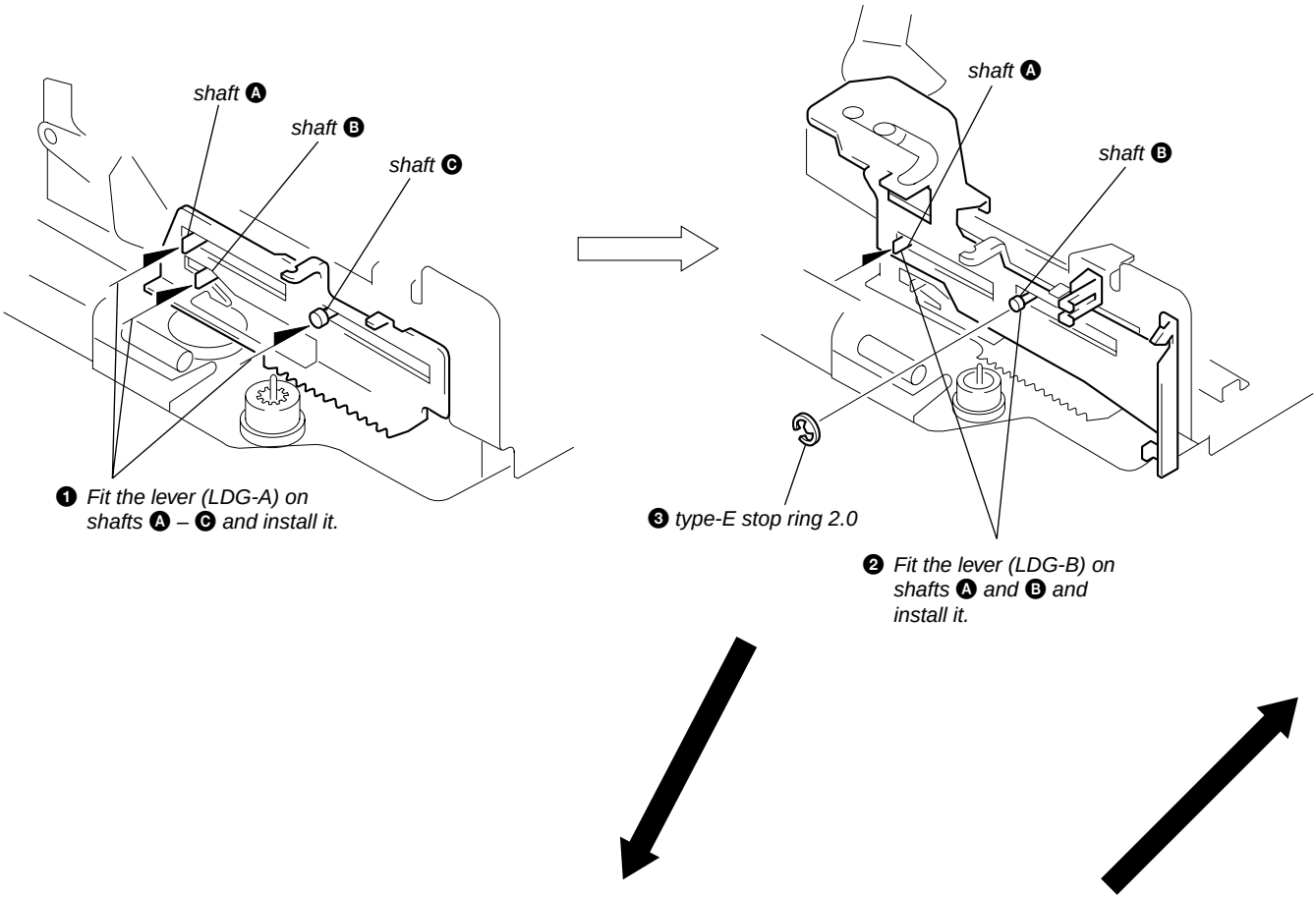
HOUSING


❼ Holder the hanger by bending the claw.
❺ Fit projection on Ⓒ part.
❶ Install the catch to the hanger.
❷ Install the hanger onto two claws of the housing.
hanger
❹ Fit claw on Ⓑ part.
❸ Put the housing under Ⓐ part.
❻ Fit projection on Ⓓ part.
housing
Ⓒ part
❽ Hold the hanger by bending the claw.
Ⓓ part
Ⓐ part
Ⓑ part

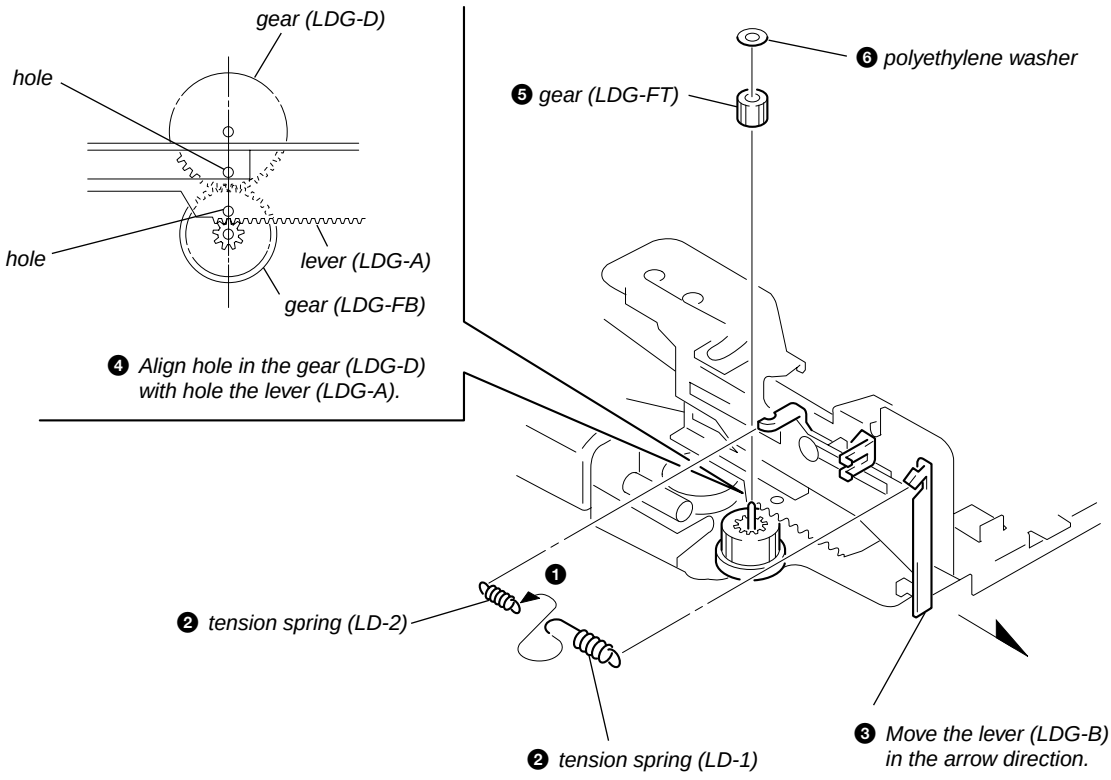
ARM (SUCTION)



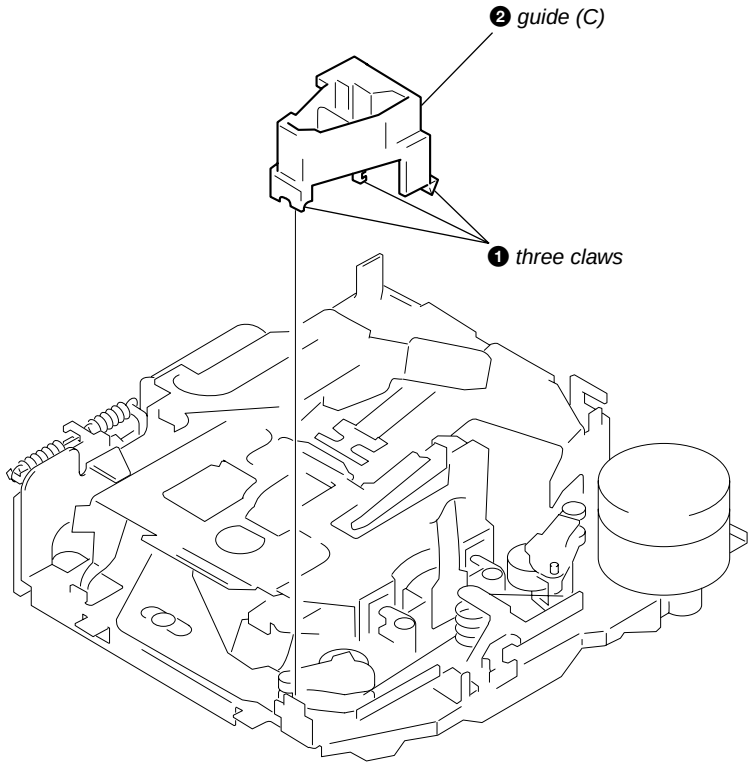
LEVER (LDG-A) / (LDG-B)


shaft Ⓐ
shaft Ⓑ
shaft Ⓒ
❶ Fit the lever (LDG-A) on shafts Ⓐ – Ⓒ and install it.
shaft Ⓐ
shaft Ⓑ
❸ type-E stop ring 2.0
❷ Fit the lever (LDG-B) on shafts Ⓐ and Ⓑ and install it.

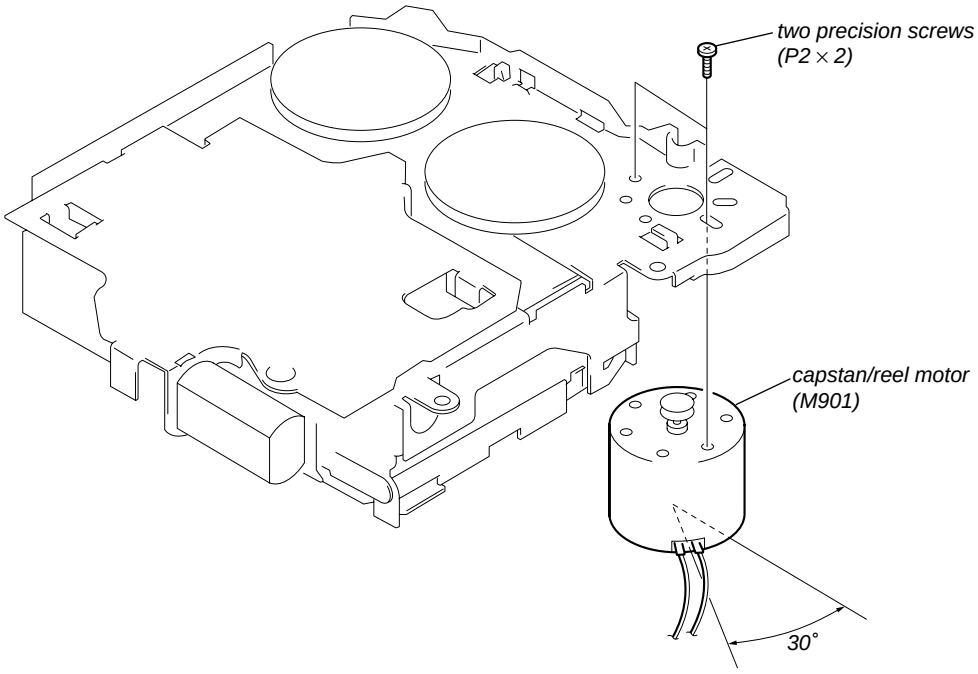
GEAR (LDG-FT)



GUIDE (C)



MOUNTING POSITION OF CAPSTAN/REEL MOTOR (M901)



SECTION 5
MECHANICAL ADJUSTMENTS

1. Clean the following parts with a denatured-alcohol-moistened swab:
   playback head pinch roller
   rubber belt capstan
   idler
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. The adjustments should be performed with the power supply voltage (14.4 V) unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	2.95 – 6.73 mN•m 30 – 65 g•cm (0.42 – 0.90 oz•inch)
Forward Back Tension	CQ-102C	0.05 – 0.44mN•m 0.5 – 4.5 g•cm (0.01 – 0.06 oz•inch)
Reverse	CQ-102RC	2.95 – 6.73 mN•m (25 – 55 g•cm) (0.42 – 0.90 oz•inch)
Reverse Back Tension	CQ-102RC	0.05 – 0.44mN•m 0.5 – 4.5 g•cm (0.01 – 0.06 oz•inch)
FF, REW	CQ-201B	5.89 – 19.61 mN•m 60 – 200 g•cm) (0.83 – 2.78 oz•inch)

• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 90 g (more than 3.18 oz)
Reverse	CQ-403R	more than 90 g (more than 3.18 oz)

SECTION 6
ELECTRICAL ADJUSTMENTS

TEST MODE

<Set the Test Mode>
1. Turn ON the regulated power supply. (All LEDs on the set lights up, and the clock is displayed.)
   Note: Press the [OFF] button, if the clock is not displayed.
2. Push the preset [4] button.
3. Push the preset [5] button.
4. Press the preset [1] button for more than two seconds.
5. Then the display indicates all lights, the test mode is set.

<Release the Test mode>
1. Push the [OFF] button.

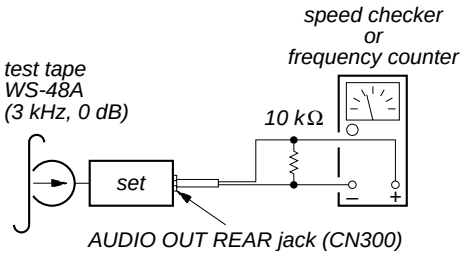
See the adjustment location from on page 25 for the adjustment.

TAPE DECK SECTION

0 dB=0.775 V

Tape Speed Adjustment

Setting:



Procedure:
1. Put the set into the FWD PB mode.
2. Adjust adjustment resistor for inside capstan motor so that the reading on the speed checker or frequency counter becomes in specification.

Specification: Constant speed

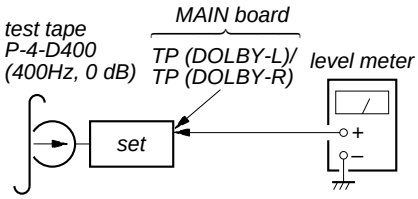
Speed checker	Frequency counter
–1.5 to +2.5%	2,955 to 3,075 Hz

Adjustment Location: See page 25.

Dolby Level Adjustment

Setting:

SOURCE button	: ON
Preset MENU (PLAY MODE) and	
DISC – buttons	: NR off
SOUND (BAS) button	: Center
SOUND (TRE) button	: Center
SOUND (BAL) button	: Center
SOUND (FAD) button	: Center
+ (VOL) button	: Maximum



Procedure:

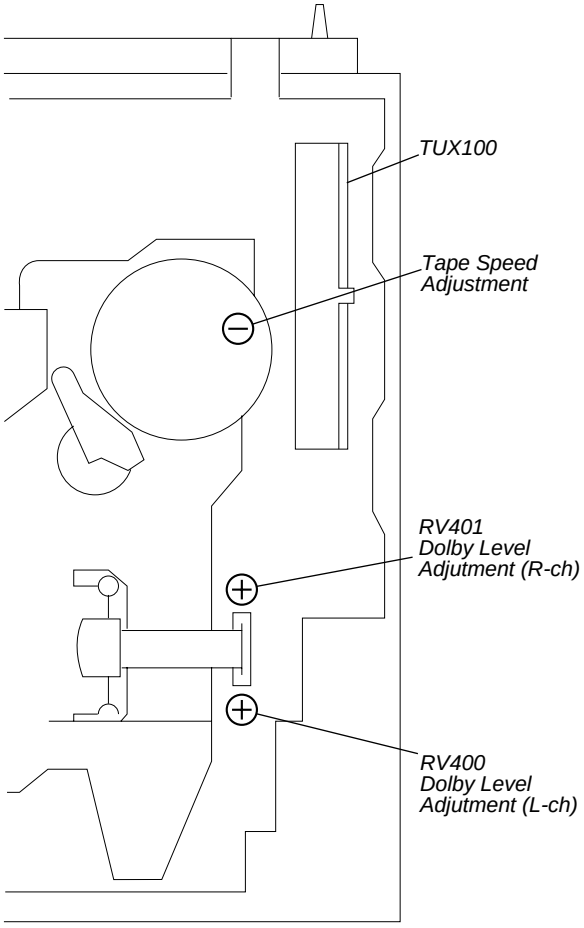
1. Put the set into the FWD PB mode.
2. Adjust RV400 (L-CH) and RV401 (R-CH) so that the level meter reading is –6±0.5 dB (0.37 to 0.41 V).

TUNER SECTION

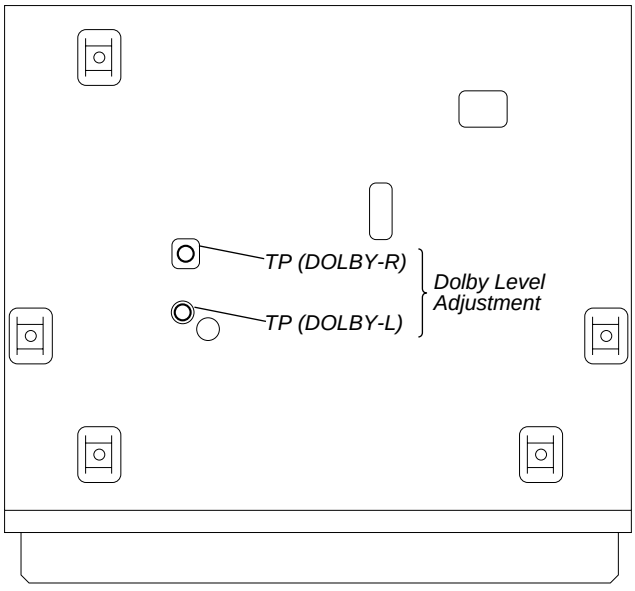
Tuner section adjustments are done automatically in this set.

Adjustment Location:

– SET UPPER VIEW –



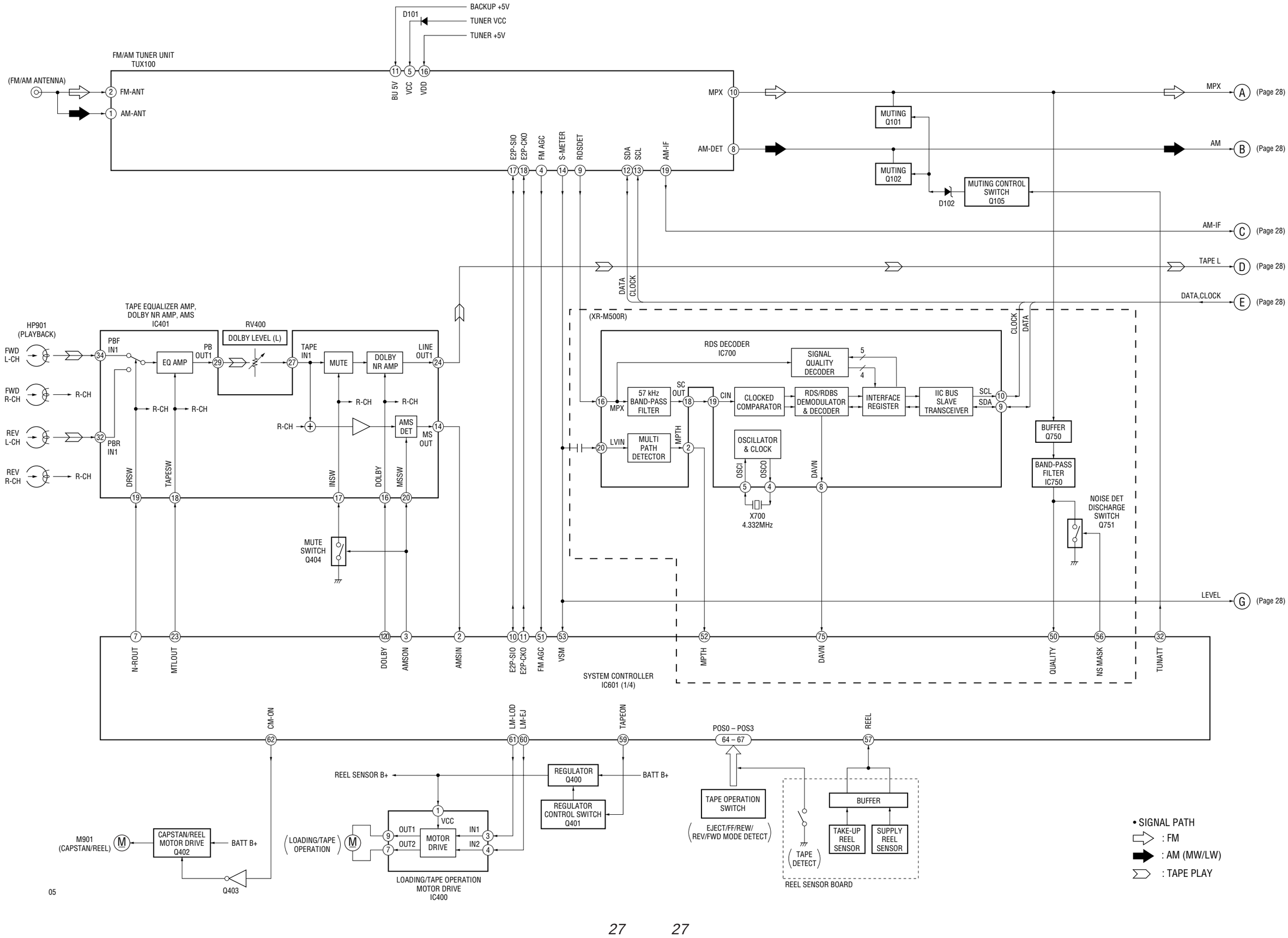
– SET BOTTOM VIEW –



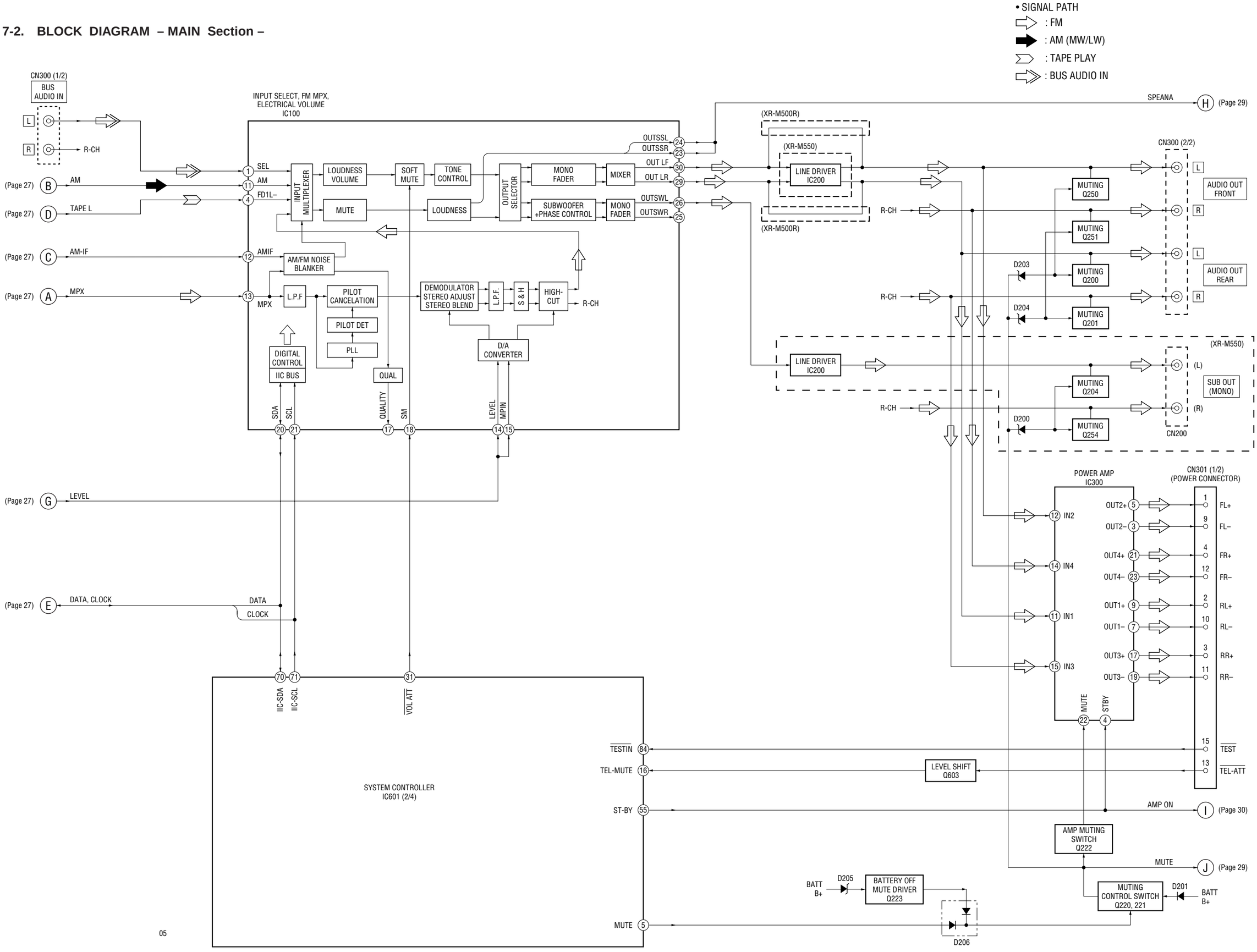
MEMO

SECTION 7
DIAGRAMS

7-1. BLOCK DIAGRAM – TUNER/TAPE Section –

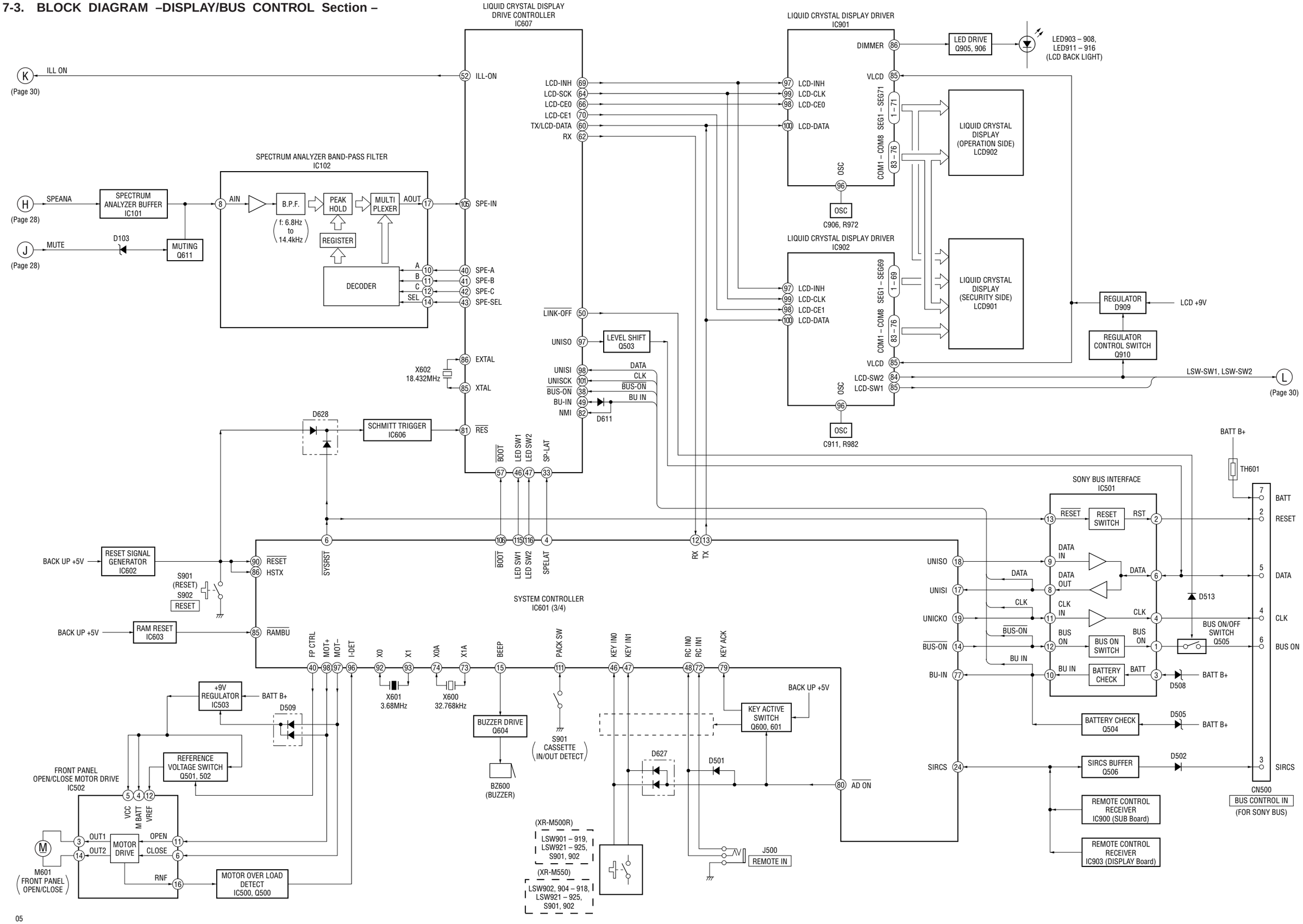


7-2. BLOCK DIAGRAM – MAIN Section –

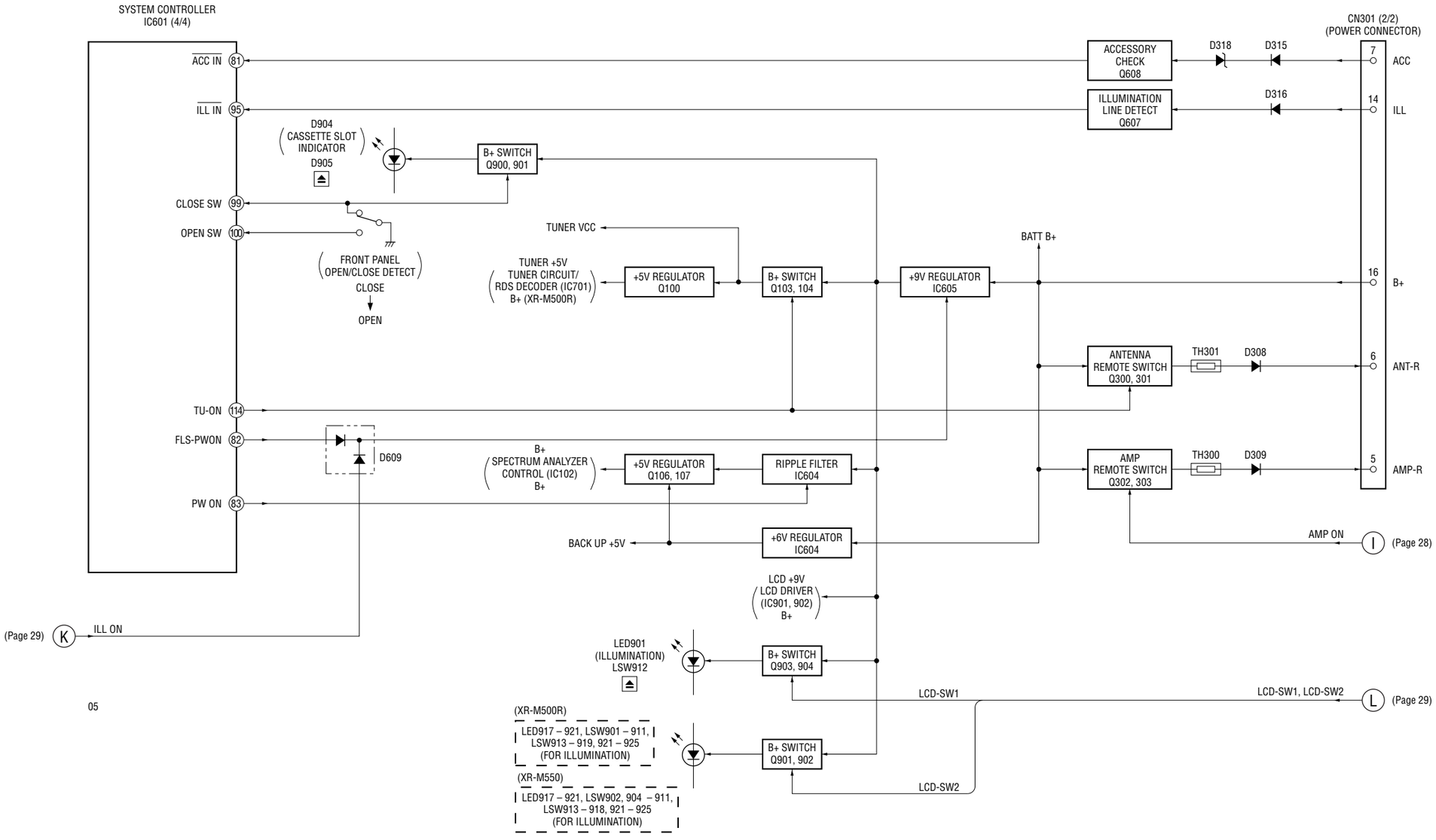


05

7-3. BLOCK DIAGRAM –DISPLAY/BUS CONTROL Section –



7-4. BLOCK DIAGRAM – POWER SUPPLY Section –



7-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

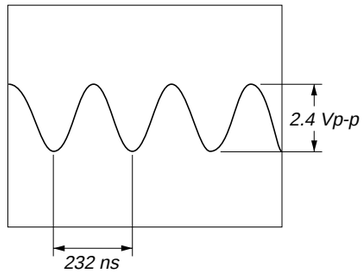
Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM (MW)
  [ ] : LW
  ⟨⟨ ⟩⟩ : TAPE PLAYBACK
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM (MW/LW)
  ⇨ : BUS AUDIO IN
  Σ : TAPE PLAY
- Please refer to servicing notes (page 3) for system of TYPE A, B, C and D.

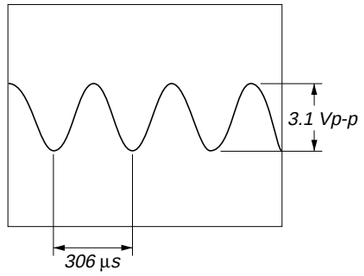
• Waveforms

– MAIN Board –

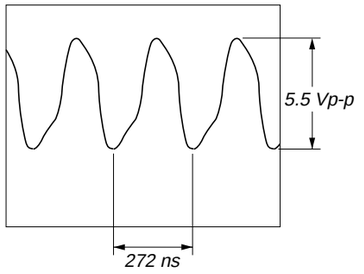
❶ IC701 ⑤ OSCI



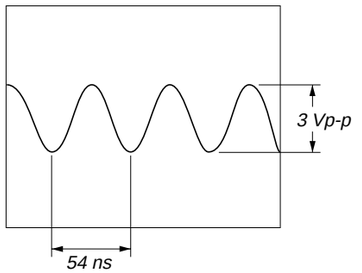
❷ IC601 ⑦③ XIA



❸ IC601 ⑨③ X1

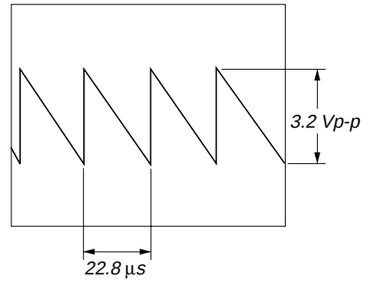


❹ IC607 ⑧⑥ EXTAL

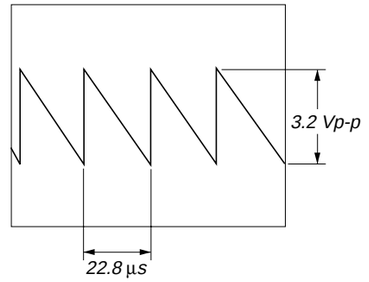


– DISPLAY Board –

❶ IC901 ⑥⓪ OSC



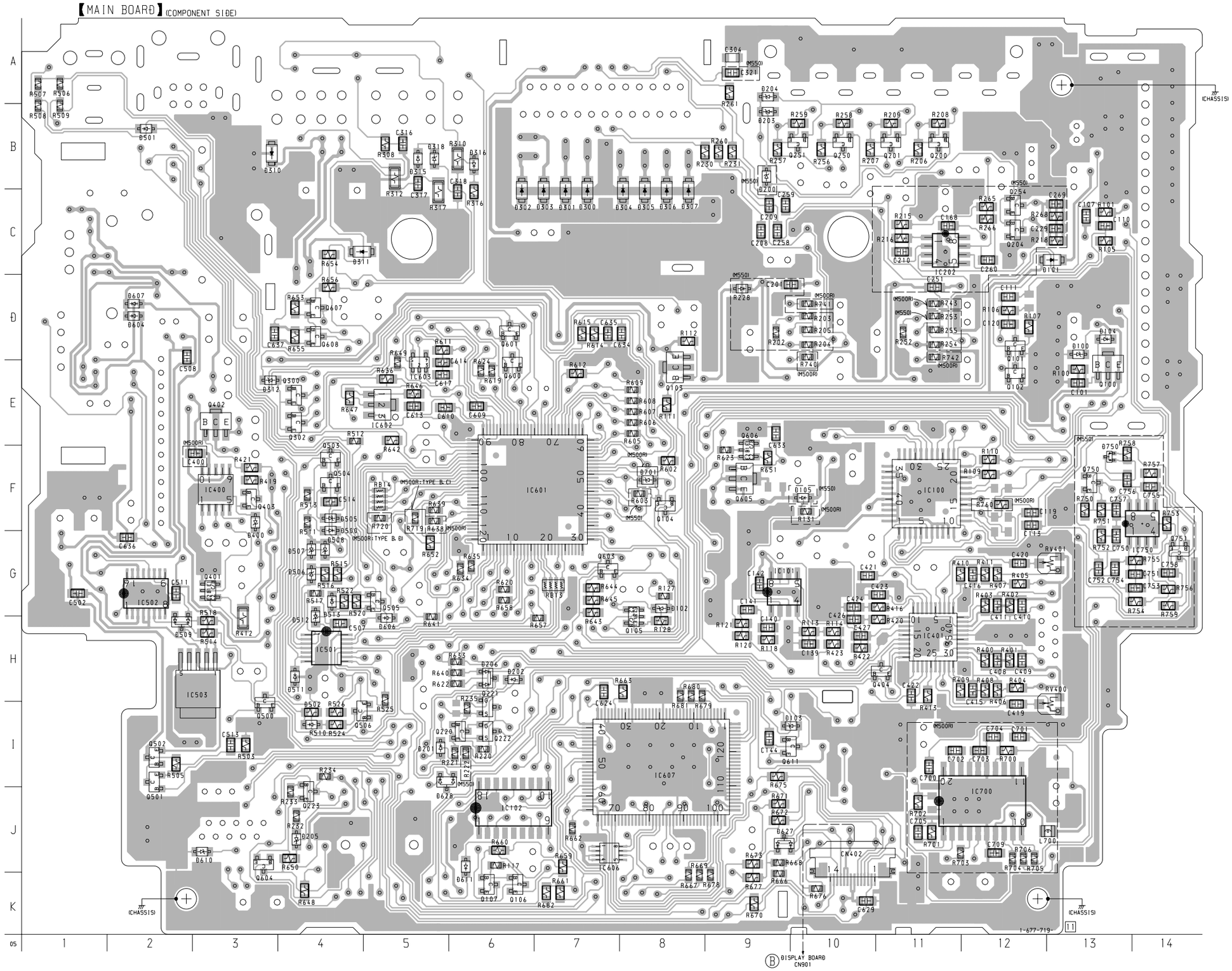
❷ IC902 ⑥⓪ OSC



7-6. PRINTED WIRING BOARD – MAIN Board (Component Side) –

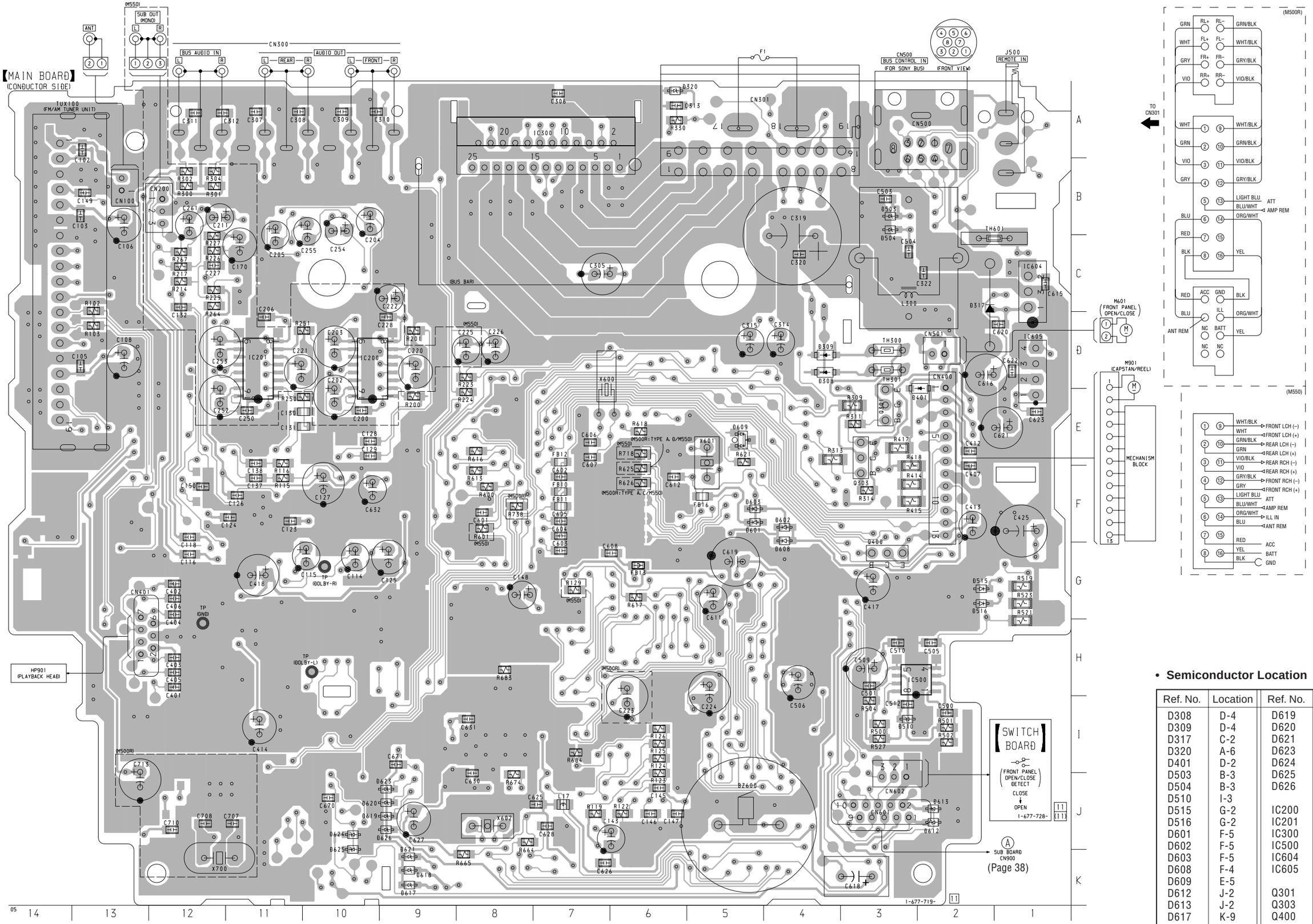
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D100	D-13	IC502	G-2
D101	C-13	IC503	H-3
D102	G-8	IC601	F-6
D103	I-9	IC602	E-5
D104	D-13	IC603	D-5
D200	B-9	IC606	J-7
D201	I-5	IC607	I-8
D202	H-6	IC700	J-12
D203	B-9	IC750	F-14
D204	A-9		
D300	C-7	Q100	E-13
D301	B-7	Q101	D-12
D302	B-6	Q102	E-12
D303	C-7	Q103	E-8
D304	B-8	Q104	F-8
D305	C-8	Q105	H-8
D306	B-8	Q106	K-6
D307	C-8	Q107	K-6
D310	B-3	Q200	B-11
D311	C-4	Q201	B-11
D312	E-3	Q204	C-12
D315	B-5	Q220	I-6
D316	B-6	Q221	H-6
D318	B-5	Q222	I-6
D400	F-3	Q250	B-10
D500	F-4	Q251	B-10
D501	B-2	Q254	C-12
D502	I-4	Q300	E-4
D505	F-4	Q302	E-4
D506	G-4	Q401	G-3
D507	G-4	Q402	E-3
D508	G-4	Q403	F-3
D509	H-2	Q404	H-11
D511	H-4	Q500	I-3
D512	H-4	Q501	I-2
D513	G-4	Q502	I-2
D604	D-2	Q503	F-4
D606	H-5	Q504	F-4
D607	D-2	Q505	G-5
D610	J-3	Q506	I-4
D611	J-6	Q600	D-6
D627	J-9	Q601	D-6
D628	I-5	Q602	G-8
D701	F-8	Q603	G-7
D750	F-13	Q604	J-3
		Q605	F-9
IC100	F-11	Q606	E-9
IC101	G-9	Q607	D-4
IC102	J-6	Q608	D-4
IC202	C-11	Q611	I-10
IC400	F-3	Q750	F-13
IC401	H-11	Q751	G-14
IC501	H-4		



(Page 40)

7-7. PRINTED WIRING BOARD – MAIN Board (Conductor Side) –

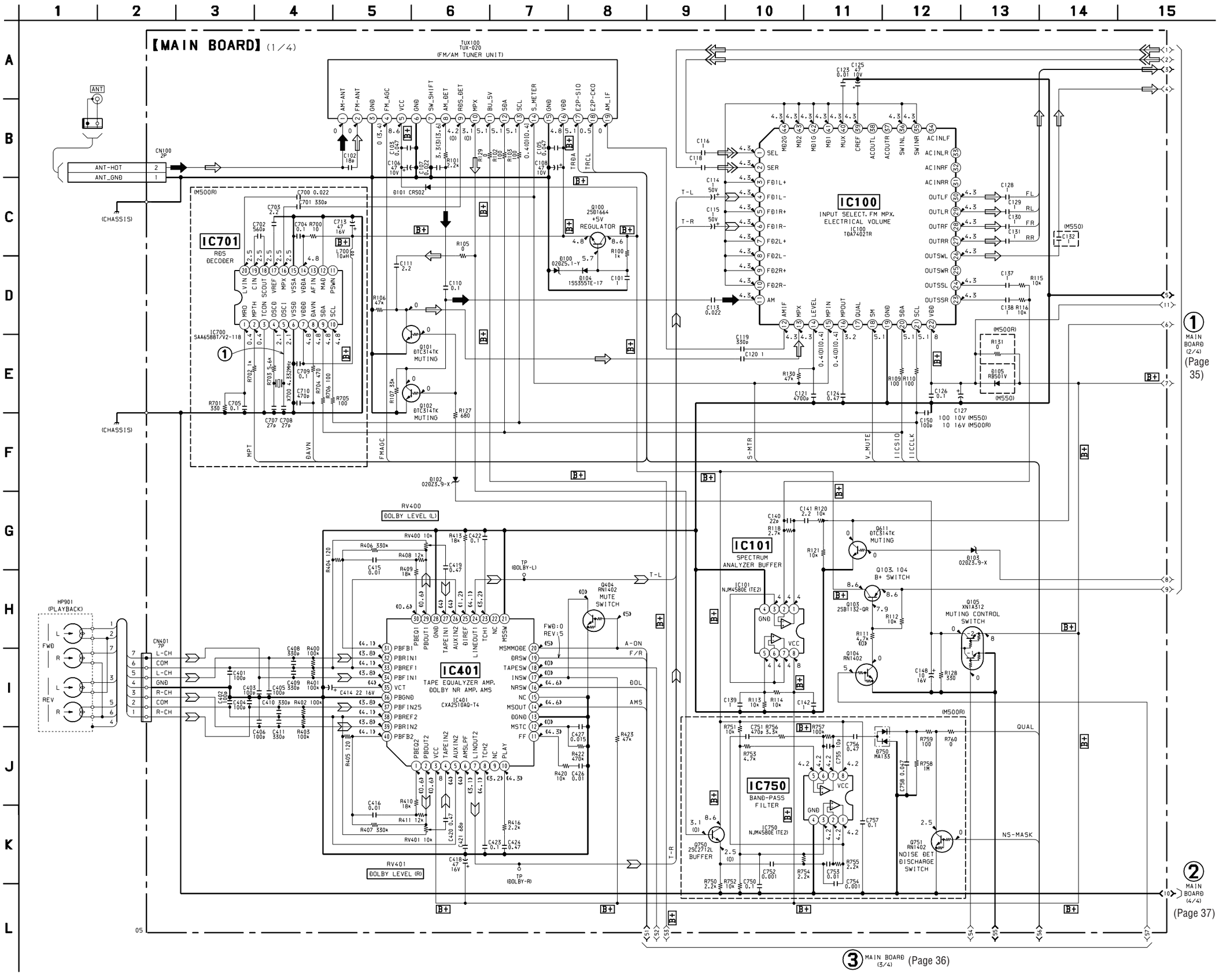


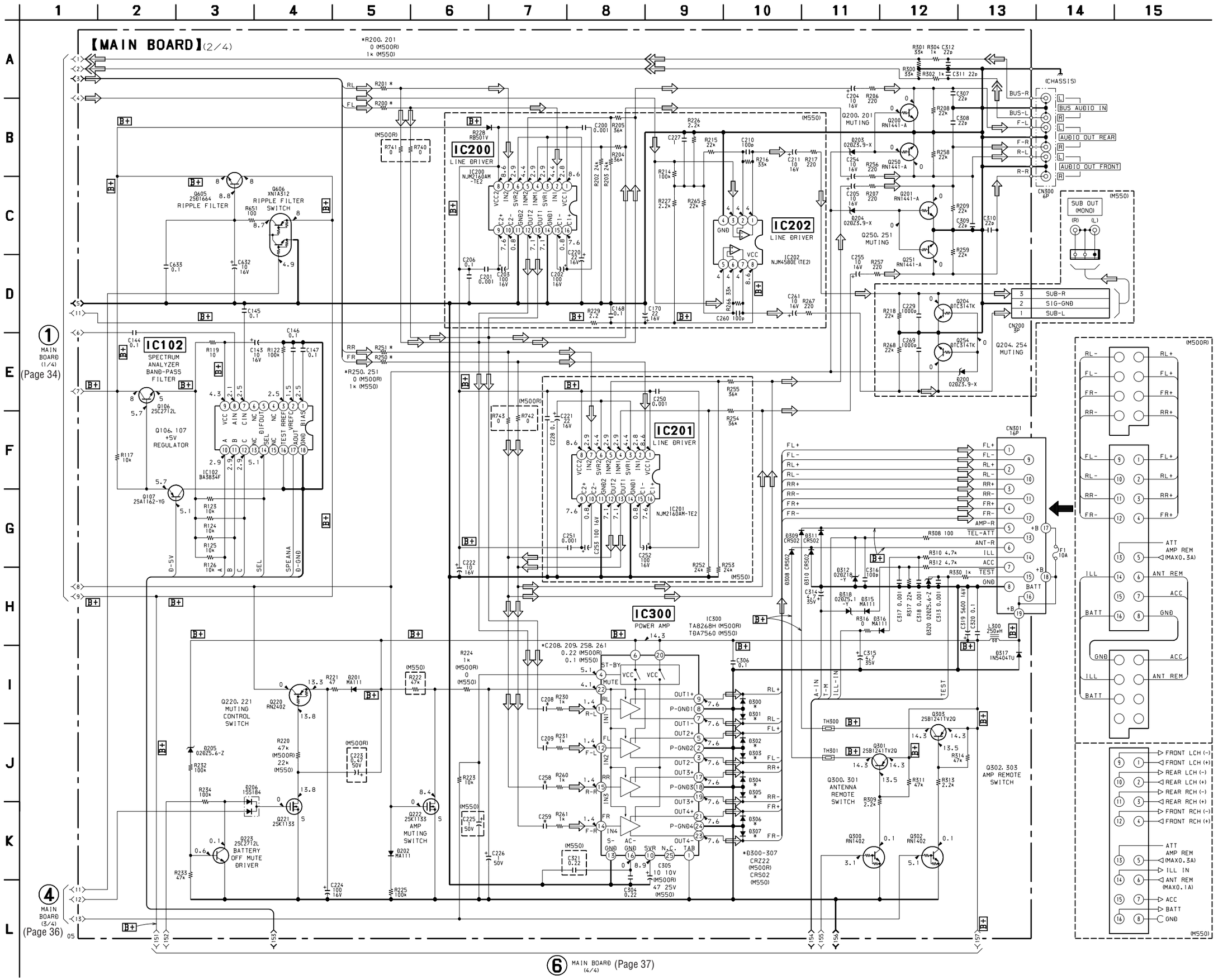
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D308	D-4	D619	J-9
D309	D-4	D620	J-9
D317	C-2	D621	K-9
D320	A-6	D623	J-9
D401	D-2	D624	J-10
D503	B-3	D625	K-10
D504	B-3	D626	J-9
D510	I-3		
D515	G-2	IC200	D-10
D516	G-2	IC201	D-11
D601	F-5	IC300	A-8
D602	F-5	IC500	H-3
D603	F-5	IC604	C-1
D608	F-4	IC605	D-1
D609	E-5		
D612	J-2	Q301	E-3
D613	J-2	Q303	E-3
D617	K-9	Q400	G-3
D618	K-9		

7-8. SCHEMATIC DIAGRAM – MAIN Board (1/4) –

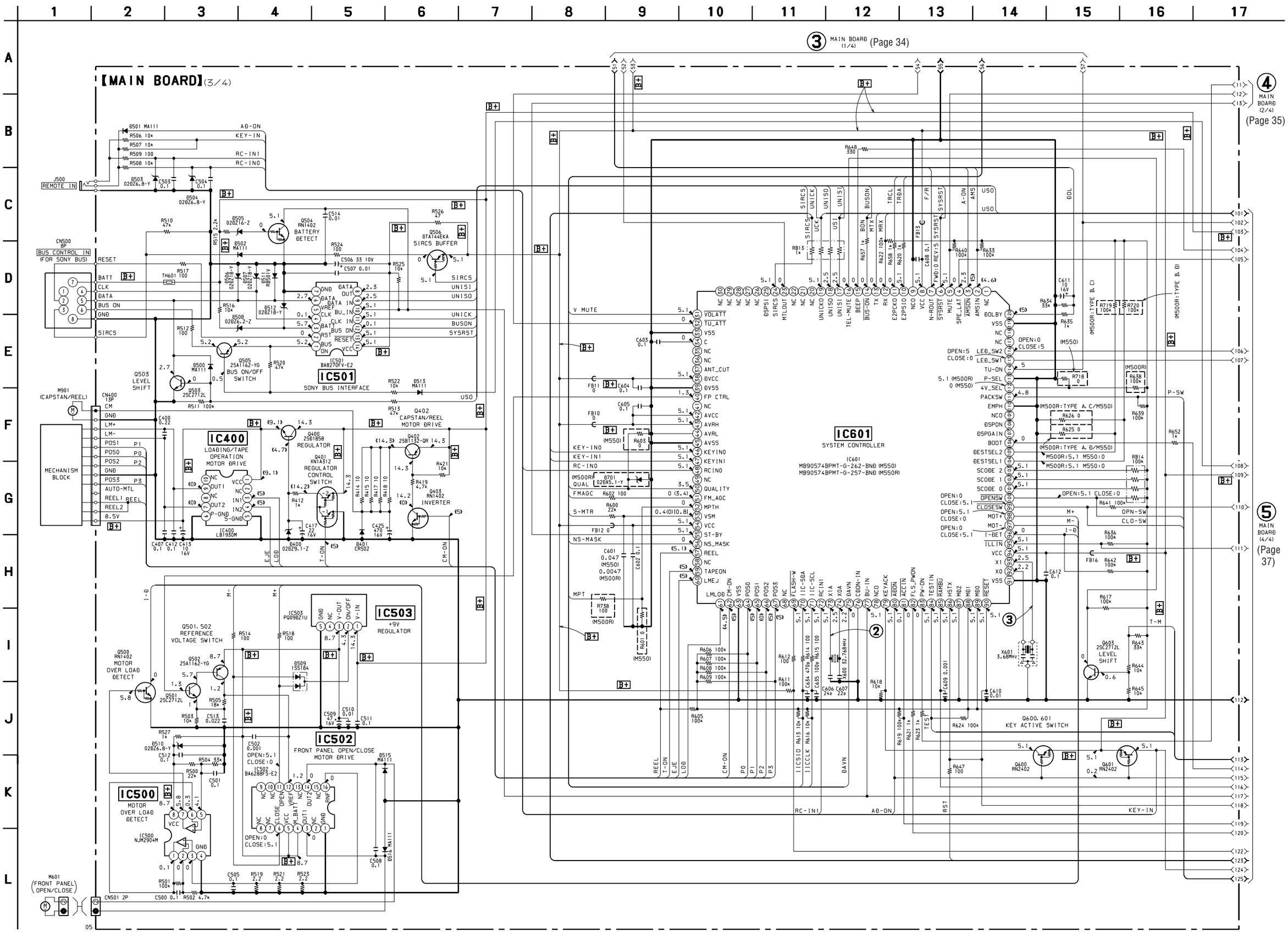
• See page 31 for Waveforms. • See page 42 for IC Block Diagrams.



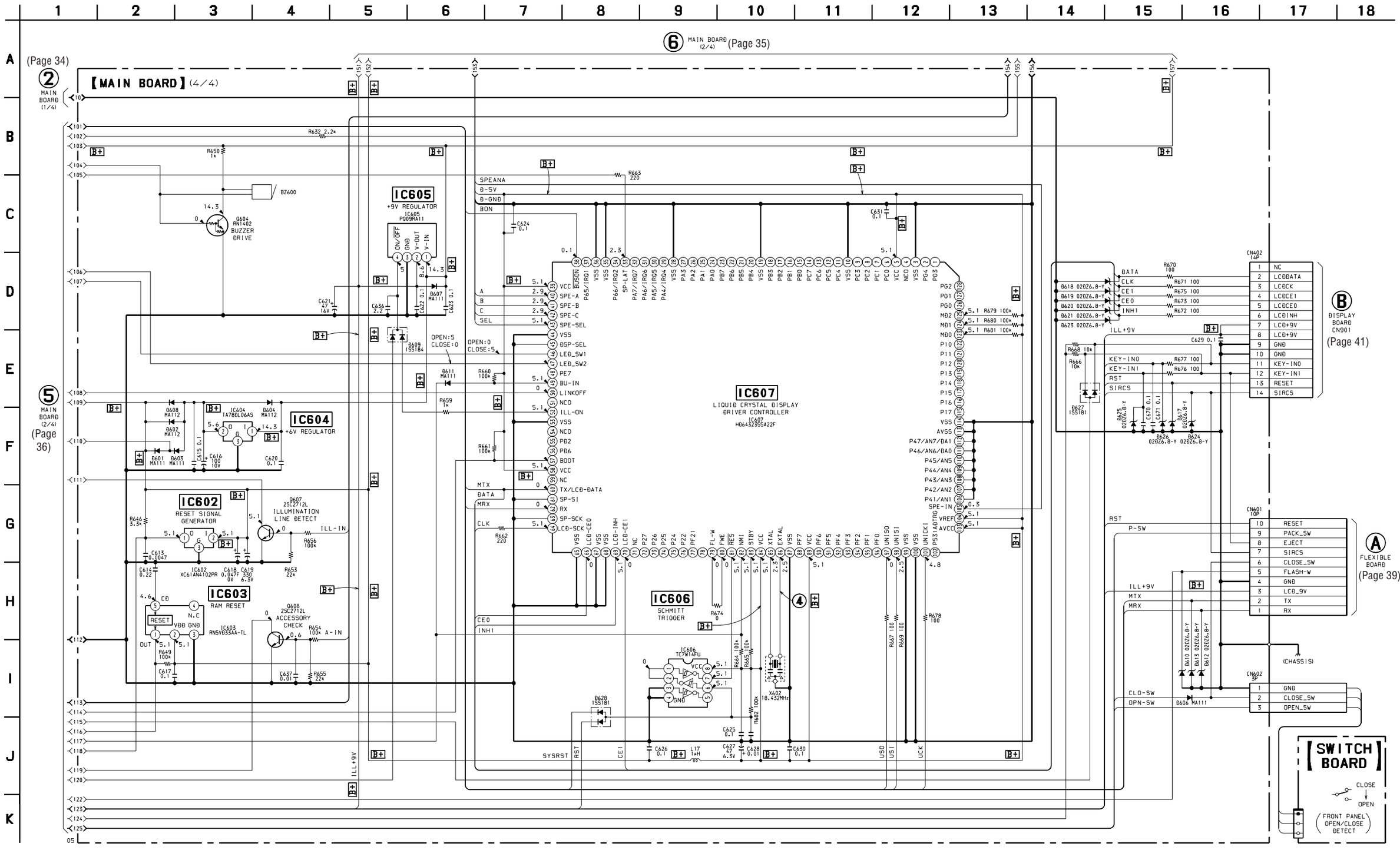

【MAIN BOARD】(2/4)
IC102
SPECTRUM ANALYZER BAND-PASS FILTER
IC200
LINE DRIVER
IC201
LINE DRIVER
IC202
LINE DRIVER
IC300
POWER AMP
IC300 TA8268H (M500R) TDA7560 (M550)
Q106. 107 +5V REGULATOR
Q220. 221 MUTING CONTROL SWITCH
Q200. 201 MUTING
Q250. 251 MUTING
Q204. 254 MUTING
Q300. 301 ANTENNA REMOTE SWITCH
Q302. 303 AMP REMOTE SWITCH
Q222 2SK1133 AMP MUTING SWITCH
Q223 2SC2712L BATTERY OFF MUTE DRIVER
RIPPLE FILTER SWITCH
(CHASSIS)
BUS AUDIO IN
AUDIO OUT REAR
AUDIO OUT FRONT
SUB OUT (MONO)
SUB-R
SIG-GND
SUB-L
FRONT LCH (–)
FRONT LCH (+)
REAR LCH (–)
REAR LCH (+)
REAR RCH (–)
REAR RCH (+)
FRONT RCH (–)
FRONT RCH (+)
ATT AMP REM (MAX0.3A)
ILL IN
ANT REM (MAX0.1A)
ACC
BATT
GND
TEL-ATT
ANT-R
ILL
ACC
TEST
BATT
F1 10A
*D300-307 CRZ22 (M500R) CR502 (M550)
1 MAIN BOARD (1/4) (Page 34)
4 MAIN BOARD (3/4) (Page 36)
6 MAIN BOARD (4/4) (Page 37)

7-10. SCHEMATIC DIAGRAM – MAIN Board (3/4) –

• See page 31 for Waveforms. • See page 42 for IC Block Diagrams.



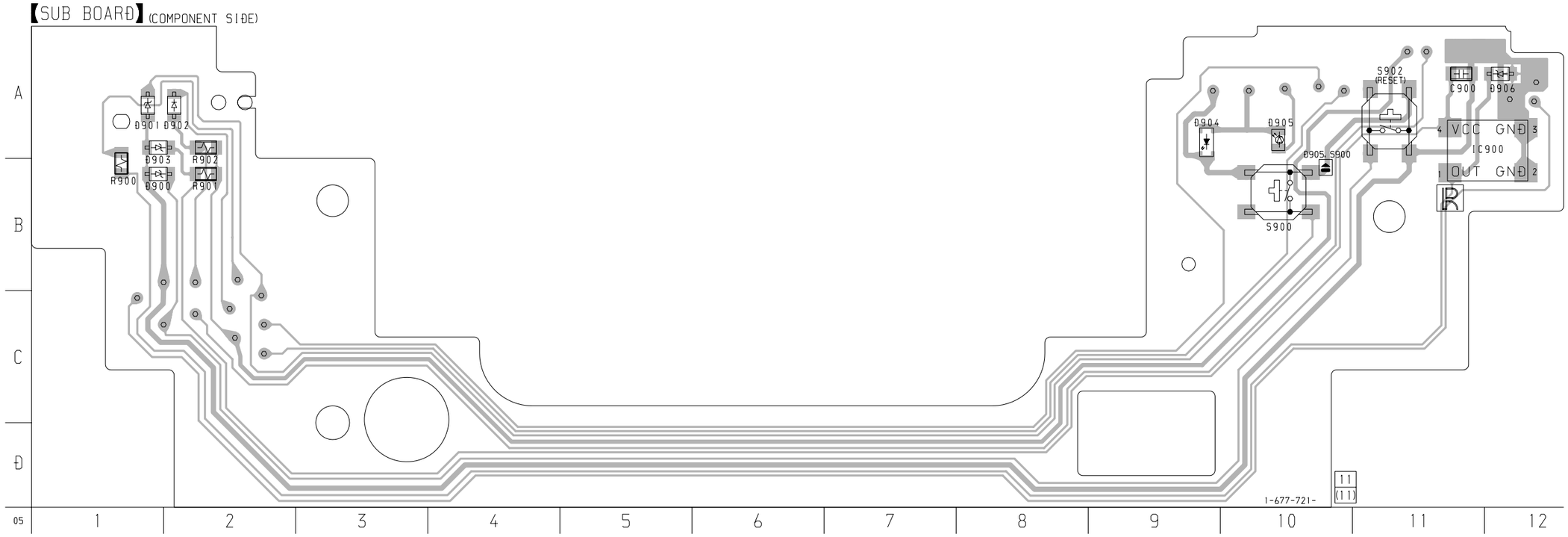
7-11. SCHEMATIC DIAGRAM – MAIN Board (4/4) – • See page 31 for Waveforms.



7-12. PRINTED WIRING BOARD – SUB Board –

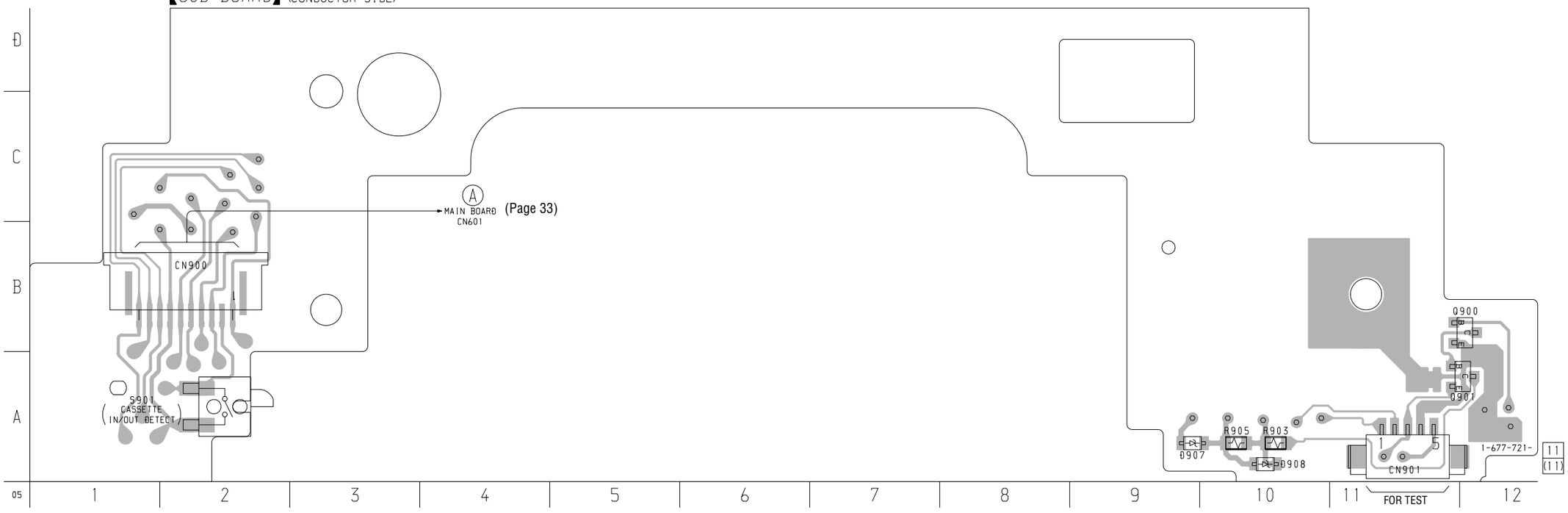
- **Semiconductor Location**

Ref. No.	Location
D900	B-1
D901	A-1
D902	A-2
D903	A-1
D904	A-9
D905	A-10
IC900	A-11

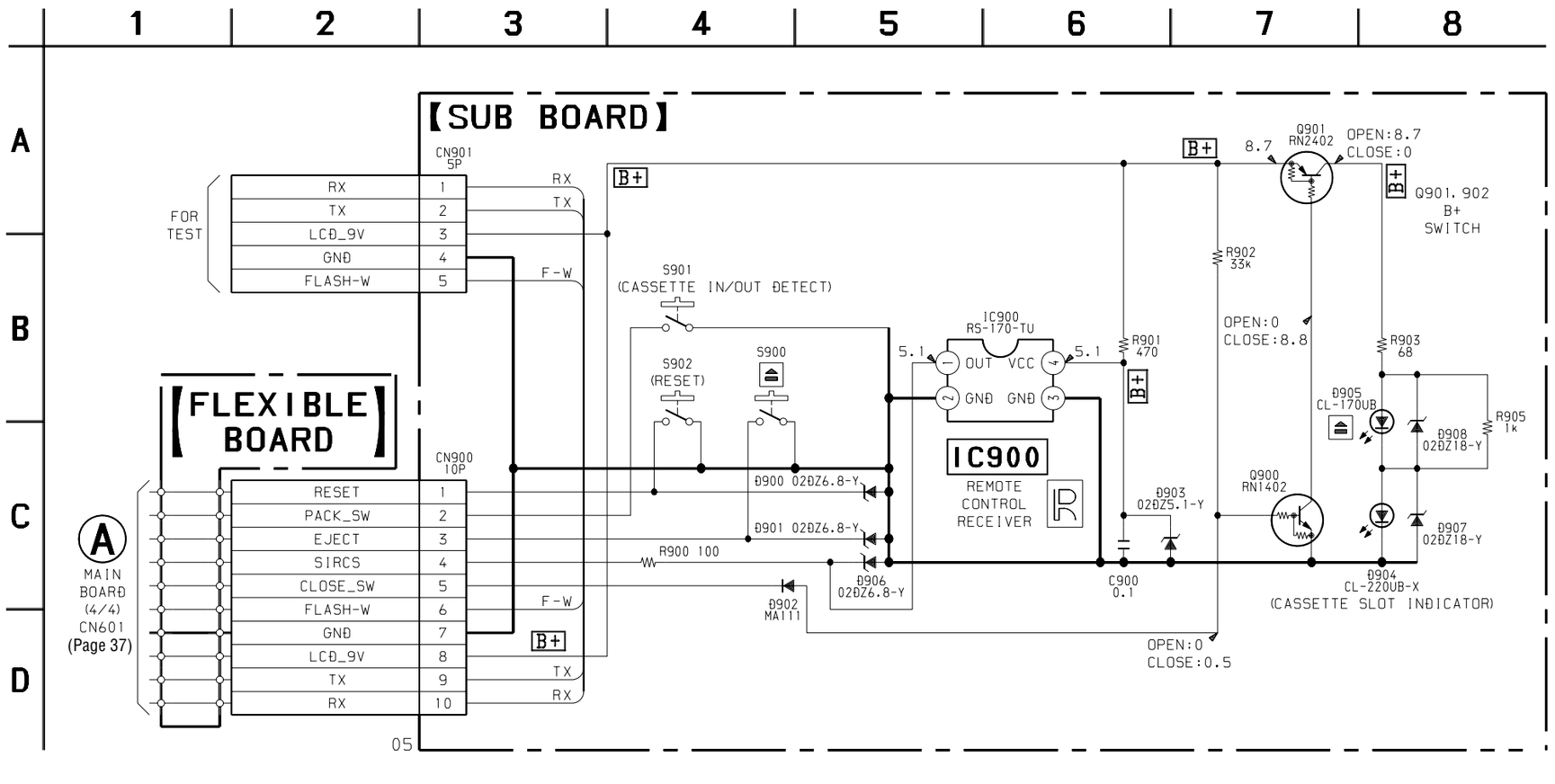


- **Semiconductor Location**

Ref. No.	Location
D907	A-9
D908	A-10
Q900	B-12
Q901	A-12



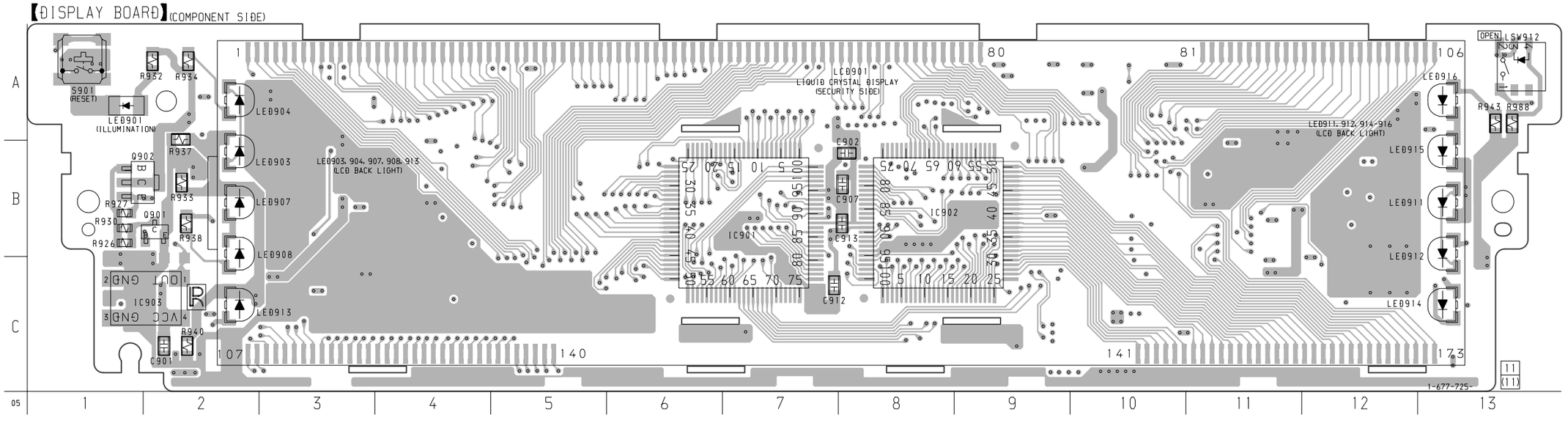
7-13. SCHEMATIC DIAGRAM – SUB Board –



7-14. PRINTED WIRING BOARD – DISPLAY Board –

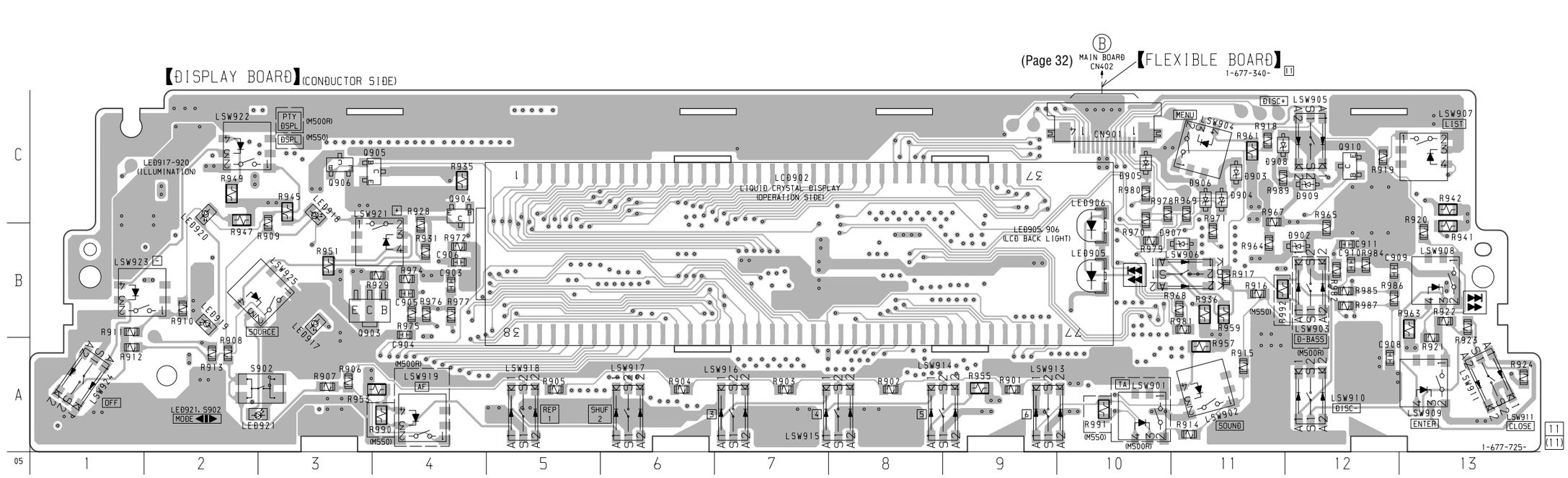
- **Semiconductor Location**

Ref. No.	Location
LED901	A-1
LED903	B-2
LED904	A-2
LED907	B-2
LED908	B-2
LED911	B-13
LED912	B-13
LED913	C-2
LED914	C-13
LED915	B-13
LED916	A-13
IC901	B-7
IC902	B-8
IC903	C-2
Q901	B-2
Q902	B-2

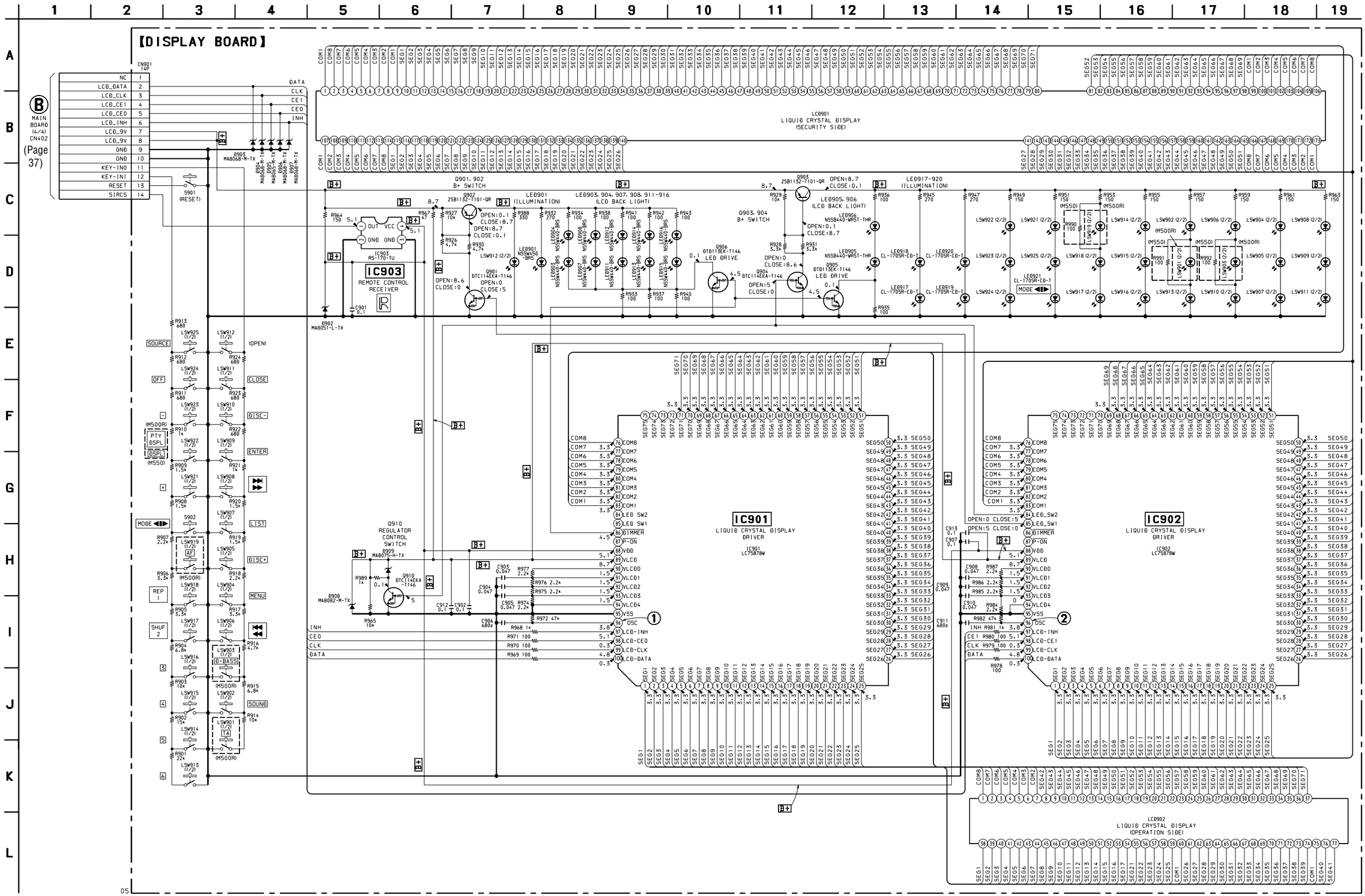


- **Semiconductor Location**

Ref. No.	Location
D902	B-12
D903	C-11
D904	C-11
D905	C-10
D906	C-11
D907	B-11
D908	C-11
D909	C-12
LED905	B-10
LED906	B-10
LED917	B-3
LED918	C-3
LED919	B-2
LED920	C-2
LED921	A-2
Q903	B-3
Q904	C-4
Q905	C-4
Q906	C-3
Q910	C-12

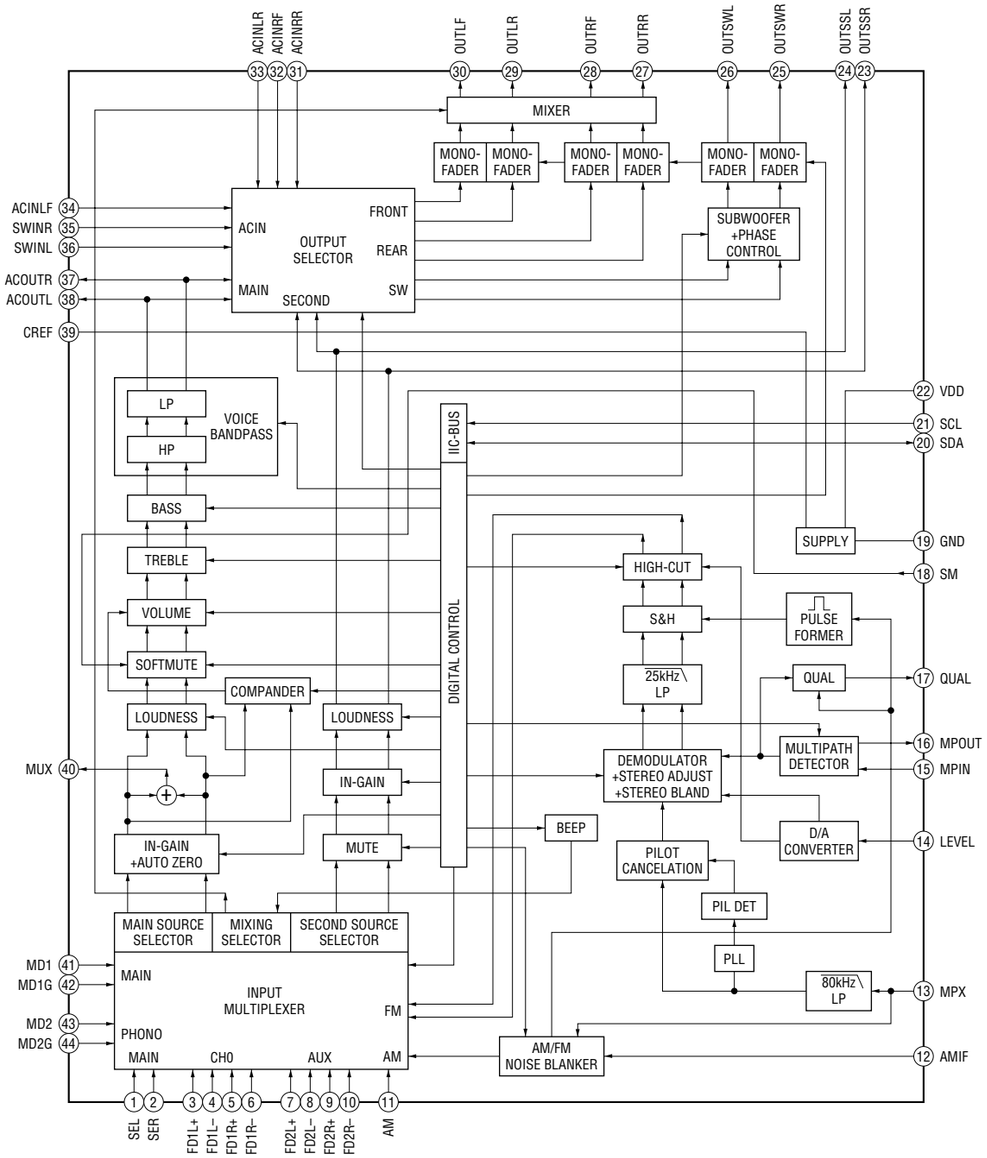


7-15. SCHEMATIC DIAGRAM – DISPLAY Board – • See page 31 for Waveforms.

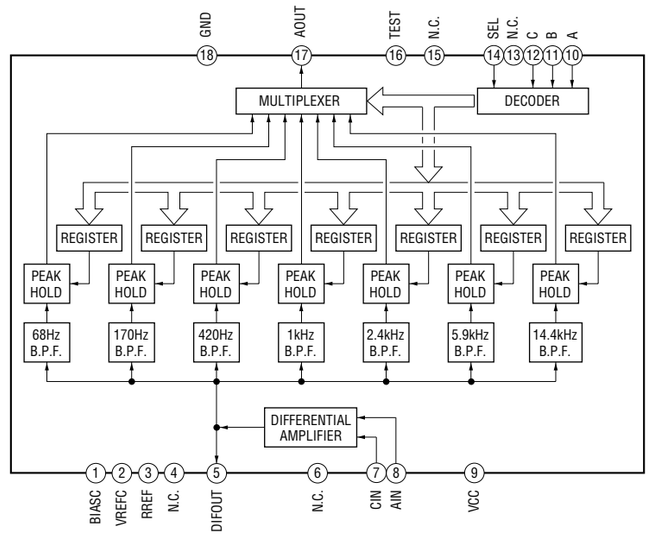


• **IC Block Diagrams**
– MAIN Board –

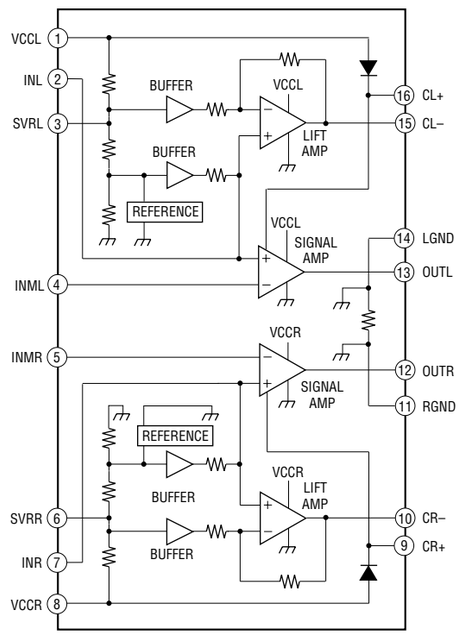
IC100 TDA7402TR



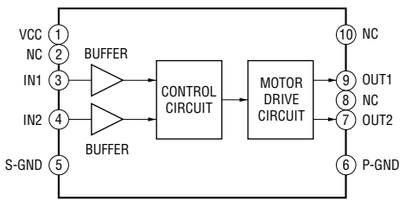
IC102 BA3834F



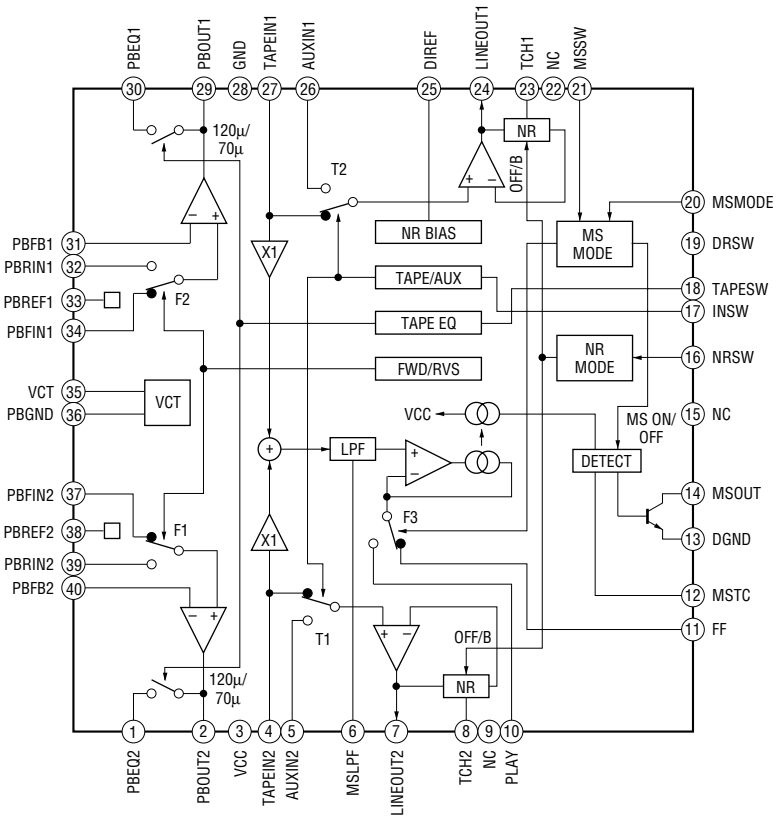
IC200, 201 NJM2160AM-TE2 (XR-M550)



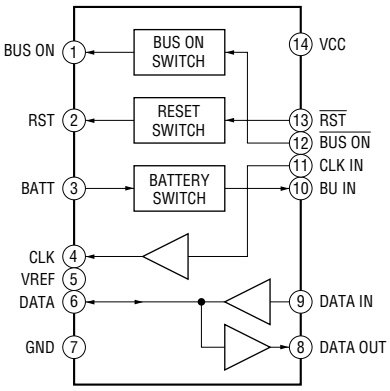
IC400 LB1930M-TLM



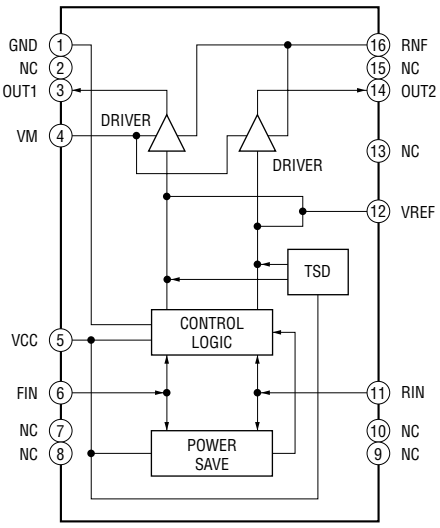
IC401 CXA2510AQ-T4



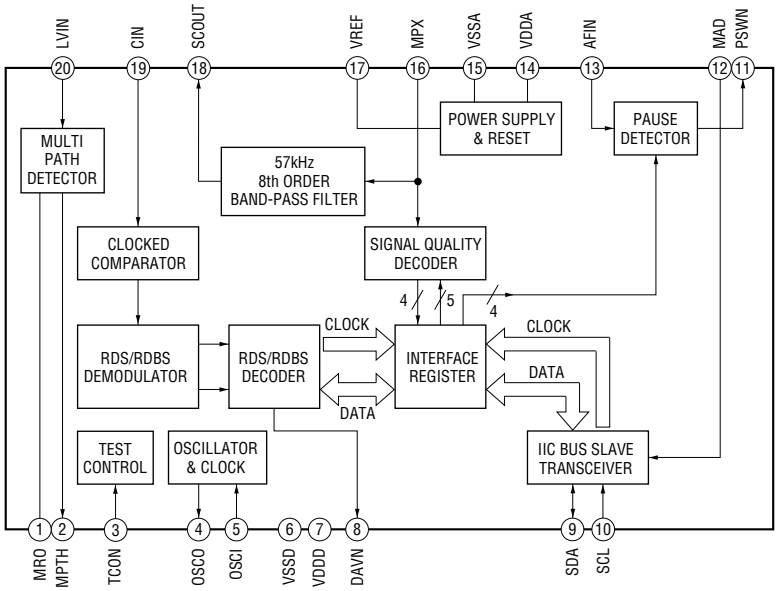
IC501 BA8270FV-E2



IC502 BA6288FS-E2



IC700 SAA6588T/V2-118 (XR-M500R)



7-16. IC PIN FUNCTION DESCRIPTION

- **MAIN BOARD IC601 (SYSTEM CONTROLLER)**
  MB90574BPMT-G-257-BND (XR-M500R) MB90574BPMT-G-262-BND (XR-M550)

Pin No.	Pin Name	I/O	Description
1	NC	O	Not used (open)
2	AMSIN	I	Whether a music is present or not from CXA2510AQ (IC401) is detected at auto music sensor "L": music is present, "H": music is not present
3	$\overline{\text{AMSON}}$	O	Tape auto music sensor control signal output to the CXA2510AQ (IC401) "L" is output to lower the gain for audio level at FF/REW mode
4	SPE LAT	O	Serial data latch pulse output for spectrum analyzer section to the liquid crystal display drive controller (IC607)
5	MUTE	O	Audio line muting on/off control signal output terminal "H": muting on
6	$\overline{\text{SYSRST}}$	O	System reset signal output to the liquid crystal display drive controller (IC607) and SONY bus interface (IC501) "L": reset
7	N-ROUT	O	Forward/reverse direction control signal output to the CXA2510AQ (IC401) "L": forward direction, "H": reverse direction
8	VCC	—	Power supply terminal (+5V)
9	NC	I	Not used (fixed at "L")
10	E2P-SIO	I/O	Two-way data bus for tuner EEPROM with the FM/AM tuner unit (TUX100)
11	E2P-CKO	I/O	Two-way bus clock signal for tuner EEPROM with the FM/AM tuner unit (TUX100)
12	RX	I	Flash memory write data input from the liquid crystal display drive controller (IC607)
13	TX	O	Flash memory write data output to the liquid crystal display drive controller (IC607)
14	$\overline{\text{BUS-ON}}$	O	Bus on/off control signal output to the liquid crystal display drive controller (IC607) and SONY bus interface (IC501) "L": bus on
15	BEEP	O	Beep sound drive signal output terminal
16	$\overline{\text{TEL-MUTE}}$	I	Telephone detection signal input terminal At input of "H", the signal is attenuated by –20 dB
17	UNISI	I	Serial data input from the SONY bus interface (IC501)
18	UNISO	O	Serial data output to the SONY bus interface (IC501)
19	UNICKO	O	Serial clock signal output to the liquid crystal display drive controller (IC607) and SONY bus interface (IC501)
20 to 22	NC	O	Not used (open)
23	MTLOUT	O	METAL on/off control signal output to the CXA2510AQ (IC401) "H": METAL on
24	SIRCS	I	Sircs remote control signal input from the remote control receiver (IC900, 903)
25 to 30	NC	O	Not used (open)
31	$\overline{\text{VOLATT}}$	O	Pre amplifier muting on/off control signal output to the electrical volume (IC100) "L": muting on
32	$\overline{\text{TUATT}}$	O	Muting on/off control signal output of the FM/AM tuner signal "L": muting on
33	VSS	—	Ground terminal
34	C	—	Connected to coupling capacitor for the power supply
35, 36	NC	O	Not used (open)
37	ANT CUT	O	Tuner system power supply on/off control signal output terminal "H": tuner power on Not used (open)
38	DVCC	—	Power supply terminal (+5V) (for D/A converter)
39	DVSS	—	Ground terminal (for D/A converter)
40	FP CTRL	O	Front panel open/close motor (M601) speed control signal output to the BA6288FS (IC502)
41	NC	O	Not used (open)
42	AVCC	—	Power supply terminal (+5V) (for analog system)
43	AVRH	I	Reference voltage (+5V) input terminal (for A/D converter)
44	AVRL	I	Reference voltage (0V) input terminal (for A/D converter)
45	AVSS	—	Ground terminal (for analog system)

Pin No.	Pin Name	I/O	Description
46	KEYIN0	I	Key input terminal (A/D input) (LSW901 to LSW912, S900) TA, SOUND, D-BASS, MENU, DISC +, ⏮ ◀◀, LIST, ▶▶⏭ ▶▶, ENTER, DISC –, CLOSE, OPEN, ⏏ keys input (LSW901 TA, LSW903 D-BASS: XR-M500R only)
47	KEYIN1	I	Key input terminal (A/D input) (LSW913 to LSW919, LSW921 to LSW925, S902) 6 to 3, SHUF 2, REP 1, AF, +, PTY DSPL (XR-M500R), DSPL (XR-M550), –, OFF, SOURCE, MODE ◀I▶ keys input (LSW919 AF: XR-M500R only)
48	RCIN0	I	Rotary remote commander key input terminal (A/D input)
49	NC	O	Not used (open)
50	QUALITY	I	Noise level detection signal input at SEEK mode (A/D input) Used for the XR-M500R only (XR-M550: Not used open)
51	FMAGC	I	FM AGC detection signal input from the FM/AM tuner unit (TUX100) (A/D input)
52	MPTH	I	Multi-path detection signal input from the RDS decoder (IC700) (A/D input) Used for the XR-M500R only (XR-M550: Not used open)
53	VSM	I	FM and AM signal meter voltage detection input from the FM/AM tuner unit (TUX100) (A/D input)
54	VCC	—	Power supply terminal (+5V)
55	ST-BY	O	Standby on/off control signal output terminal "L": standby mode, "H": amplifier on
56	NS-MASK	O	Discharge control signal output for the noise detection circuit "H": discharge Used for the XR-M500R only (XR-M550: Not used open)
57	REEL	I	Rotation detect signal input from supply reel sensor and take-up reel sensor on the deck mechanism
58	NC	I	Not used (fixed at "L")
59	TAPE ON	O	Tape system power supply on/off control signal output terminal "H": tape on
60	LM-EJ	O	Motor drive signal output to the loading/tape operation motor drive (IC400) "H" active (For the eject direction and reverse side operation) *1
61	LM-LOD	O	Motor drive signal output to the loading/tape operation motor drive (IC400) "H" active (For the loading direction and forward side operation) *1
62	CM ON	O	Capstan/reel motor (M901) drive signal output terminal "H": motor on
63	VSS	—	Ground terminal
64	POS0	I	Tape position (EJECT/FF/REW/REV/ FWD mode) detect input from the tape operation switch on the deck mechanism POS0: "L": EJECT mode, "H": others mode POS1: "L": FF and FWD mode, "H": others mode POS2: "L": REW mode, "H": others mode POS3: "L": REV and EJECT mode, "H": others mode
65	POS1	I	
66	POS2	I	
67	POS3	I	
68	NC	O	Not used (open)
69	FLASH-W	I	Internal flash memory data write mode detection signal input terminal "L": data write mode Not used (pull up)
70	IIC SDA	I/O	Two-way data I^2C bus with the FM/AM tuner unit (TUX100), RDS decoder (IC700) and electrical volume (IC100) (RDS decoder is XR-M500R only)
71	IIC SCL	O	I^2C bus clock signal output to the FM/AM tuner unit (TUX100), RDS decoder (IC700) and electrical volume (IC100) (RDS decoder is XR-M500R only)
72	RCIN1	I	Rotary remote commander shift key input terminal
73	X1A	O	Sub system clock output terminal (32.768 kHz)
74	X0A	I	Sub system clock input terminal (32.768 kHz)
75	DAVN	I	Data transmit completed detection signal input from the RDS decoder (IC700) "H" active Used for the XR-M500R only (XR-M550: Not used open)
76	CDON-IN	I	CD/MD on/off control signal input terminal (fixed at "L" in this set)
77	BU-IN	I	Battery detection signal input from the SONY bus interface (IC501) and battery detect circuit "L" is input at low voltage

Pin No.	Pin Name	I/O	Description
78	NC	O	Not used (open)
79	KEYACK	I	Input of acknowledge signal for the key entry Acknowledge signal is input to accept function and eject keys in the power off status On at input of "H"
80	$\overline{\text{AD ON}}$	O	A/D converter power control signal output terminal When the KEYACK (pin ⑦⑨) that controls reference voltage power for key A/D conversion input is active, "L" is output from this terminal to enable the input
81	$\overline{\text{ACCIN}}$	I	Accessory detection signal input terminal "L": accessory on
82	FLS PWON	O	Power on/off control signal output of the illumination LED and liquid crystal display driver (IC901, 902) "H": power on
83	PW-ON	O	Main system power supply on/off control signal output terminal "H": power on
84	$\overline{\text{TESTIN}}$	I	Setting terminal for the test mode "L": test mode, Normally: fixed at "H"
85	$\overline{\text{RAMBU}}$	I	Internal RAM reset detection signal input from the RN5VD33AA (IC603) Input terminal to check that RAM data are not destroyed due to low voltage This checking is made within 100 msec after reset
86	HSTX	I	Hardware standby input terminal "L": hardware standby mode Reset signal input in this set
87	MD2	I	Setting terminal for the CPU operational mode (fixed at "L" in this set)
88	MD1	I	Setting terminal for the CPU operational mode (fixed at "H" in this set)
89	MD0	I	Setting terminal for the CPU operational mode (fixed at "H" in this set)
90	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC602) and reset switch (S901, 902) "L": reset "L" is input for several 100 msec after power on, then it changes to "H"
91	VSS	—	Ground terminal
92	X0	I	Main system clock input terminal (3.68 MHz)
93	X1	O	Main system clock output terminal (3.68 MHz)
94	VCC	—	Power supply terminal (+5V)
95	$\overline{\text{ILLIN}}$	I	Auto dimmer control illumination line detection signal input terminal "L" is input at dimmer detection
96	$\overline{\text{I-DET}}$	I	Detection signal input from the motor overload detection circuit for the front panel open/close motor (M601) "L" is input when the motor current exceeds the specified value
97	MOT–	O	Front panel open/close motor (M601) drive signal (in panel close direction) output to the BA6288FS (IC502) "H" active *2
98	MOT+	O	Front panel open/close motor (M601) drive signal (in panel open direction) output to the BA6288FS (IC502) "H" active *2
99	$\overline{\text{CLOSE SW}}$	I	Front panel open/close detect switch input terminal "L" is input when the front panel is closed
100	$\overline{\text{OPEN SW}}$	I	Front panel open/close detect switch input terminal "L" is input when the front panel is opened
101 to 103	SCODE0 to SCODE3	I	Setting terminal for security code
104, 105	DSTSEL1, DSTSEL2	I	Destination setting terminal (A/D input) XR-M500R: fixed at "L", XR-M550: fixed at "H"
106	$\overline{\text{BOOT}}$	O	Serial data output to the liquid crystal display drive controller (IC607)
107	DSP GAIN	O	Not used (open)
108	DSP ON	O	Power supply on/off control signal output terminal "H": DSP on Not used (open)
109	NC	O	Not used (open)
110	EMPH-IN	I	Emphasis control signal input terminal Not used (open)
111	PACK SW	I	Cassette in/out detect switch (S901) "L": cassette in
112	4V SEL	I	Input terminal of whether line driver is mounted or not is detected "L": line driver is mounted (XR-M550), "H": line driver is not mounted (XR-M500R)
113	P SEL	I	Power select input terminal Not used (fixed at "L")

Pin No.	Pin Name	I/O	Description
114	TUNON	O	Tuner system power supply on/off control signal output terminal “H”: tuner power on
115, 116	LED SW1, LED SW2	O	Security/operation side select control signal output to the liquid crystal display drive controller (IC607)
117, 118	NC	O	Not used (open)
119	VSS	—	Ground terminal
120	DOLBY	O	Dolby-B on/off select signal output to the CXA2510AQ (IC401) “H”: dolby on

*1 Loading/tape operation motor control

Mode / Terminal	STOP	LOADING/ FORWARD	EJECT/ REVERSE	BRAKE
LM-LOD (pin ⑥①)	“L”	“H”	“L”	“H”
LM-EJ (pin ⑥⓪)	“L”	“L”	“H”	“H”

*2 Front panel open/close motor (M601) control

Mode / Terminal	STOP	FRONT PANEL OPEN	FRONT PANEL OPEN	BRAKE
MOT– (pin ⑨⑦)	“L”	“L”	“H”	“H”
MOT+ (pin ⑨⑧)	“L”	“H”	“L”	“H”

• MAIN BOARD IC607 HD6432355A22F (LIQUID CRYSTAL DISPLAY DRIVE CONTROLLER)

Pin No.	Pin Name	I/O	Description
1, 2	PG3, PG4	O	Not used (open)
3	VSS	—	Ground terminal
4	NC	—	Not used (open)
5	VCC	—	Power supply terminal (+5V)
6 to 9	PC0 to PC3	O	Not used (open)
10	VSS	—	Ground terminal
11 to 14	PC4 to PC7	O	Not used (open)
15 to 18	PB0 to PB3	O	Not used (open)
19	VSS	—	Ground terminal
20 to 23	PB4 to PB7	O	Not used (open)
24 to 27	PA0 to PA3	O	Not used (open)
28	VSS	—	Ground terminal
29 to 32	PA4/IRQ4 to PA7/IRQ7	O	Not used (open)
33	SP-LAT	I	Serial data latch pulse input for spectrum display from the system controller (IC601) "H" active
34	P66/IRQ2	O	Not used (open)
35, 36	VSS	—	Ground terminal
37	P65/IRQ1	O	Not used (open)
38	$\overline{\text{BUS-ON}}$	I	Bus on/off control signal output from the system controller (IC601) "L": bus on
39	VCC	—	Power supply terminal (+5V)
40	SPE-A	O	Output select control signal output to the BA3834F (IC102) *1
41	SPE-B	O	
42	SPE-C	O	
43	SPE-SEL	O	
44	VSS	—	Ground terminal
45	DSP SEL	I	Spectrum analyzer display data select signal input from the BA3834F (IC102)
46, 47	LED SW1, LED SW2	I	Security/operation side select control signal input from the system controller (IC601) "H" active
48	PE7	O	Not used (open)
49	BU-IN	I	Battery detect signal input from the SONY bus interface (IC501) and battery detect circuit "L" is input at low voltage
50	LINK-OFF	O	Link on/off control signal output for the SONY bus "L": link on, "H": link off
51	PD2	O	Not used (open)
52	ILL-ON	O	Power on/off control signal output of the illumination LED "H": power on

*1 Output select logic table

Terminal \ IC102 (pin ⑰) AOUT	GND	GND	68Hz	170Hz	420Hz	1kHz	2.4kHz	5.9kHz	14.4kHz
SPE-A (pin ㊵)	×	0	0	0	0	1	1	1	1
SPE-B (pin ㊶)	×	0	0	1	1	0	0	1	1
SPE-C (pin ㊷)	×	0	1	0	1	0	1	0	1
SPE-SEL (pin ㊸)	0	1	1	1	1	1	1	1	1

"×" is don't care

Pin No.	Pin Name	I/O	Description
53	VSS	—	Ground terminal
54, 55	NC	O	Not used (open)
56	PD6	O	Not used (open)
57	$\overline{\text{BOOT}}$	I	Serial data input at the flash memory writing mode "L" is input when writing change
58	VCC	—	Power supply terminal (+5V)
59	NC	O	Not used (open)
60	TX/LCD-DATA	O	Display serial data output to the liquid crystal display driver (IC901, 902) Output terminal for UART transfer data when writing into internal flash memory data
61	SP-SI	I	Spectrum analyzer display serial data input terminal Not used (fixed at "L")
62	RX	I	Input terminal for UART transfer data when writing into internal flash memory data
63	SP-SCK	I	Spectrum analyzer display serial data transfer clock signal input terminal Not used (fixed at "L")
64	LCD-SCK	O	Display serial data transfer clock signal output to the liquid crystal display driver (IC901, 902)
65	VSS	—	Ground terminal
66	LCDCE0	O	Chip enable signal output to the liquid crystal display driver (IC901) "H" active
67, 68	VSS	—	Ground terminal
69	$\overline{\text{LCD-INH}}$	O	Blank indicate control signal output to the liquid crystal display driver (IC901, 902) "L": no display
70	LCDCE1	O	Chip enable signal output to the liquid crystal display driver (IC902) "H" active
71	NC	O	Not used (open)
72 to 78	P27 to P21	O	Not used (open)
79	FL W	O	Flash memory data write control signal output terminal "H": active
80	FWE	I	Flash memory data write enable signal input terminal
81	$\overline{\text{RES}}$	I	System reset signal input from the reset signal generator (IC602) and reset switch (S901, 902) "L" is input for several 100 msec after power on, then it changes to "H"
82	NMI	I	Non maskable interrupt input terminal Connect the backup detect circuit (BU-IN pin ㊾) in this set
83	$\overline{\text{STBY}}$	I	Hard ware standby input terminal Not used (pull down)
84	VCC	—	Power supply terminal (+5V)
85	XTAL	O	System clock output terminal (18.432 MHz)
86	EXTAL	I	System clock input terminal (18.432 MHz)
87	VSS	—	Ground terminal
88	PF7	O	Not used (open)
89	VCC	—	Power supply terminal (+5V)
90 to 96	PF6 to PF0	O	Not used (open)
97	UNI-SO	O	Serial data output to the SONY bus interface (IC501)
98	UNI-SI	I	Serial data input from the SONY bus interface (IC501)
99, 100	VSS	—	Ground terminal
101	UNICKI	I	Serial clock signal input from the system controller (IC601)
102	P53/ADTRG	O	Not used (open)
103	AVCC	—	Power supply terminal (+5V) (for A/D converter)
104	VREF	I	Reference voltage (+5V) input terminal (for A/D converter)
105	SPE-IN	I	Peak hold voltage detect signal input from the BA3834F (IC102)
106 to 110	P41/AN1 to P45/AN5	I	Not used (fixed at "L")

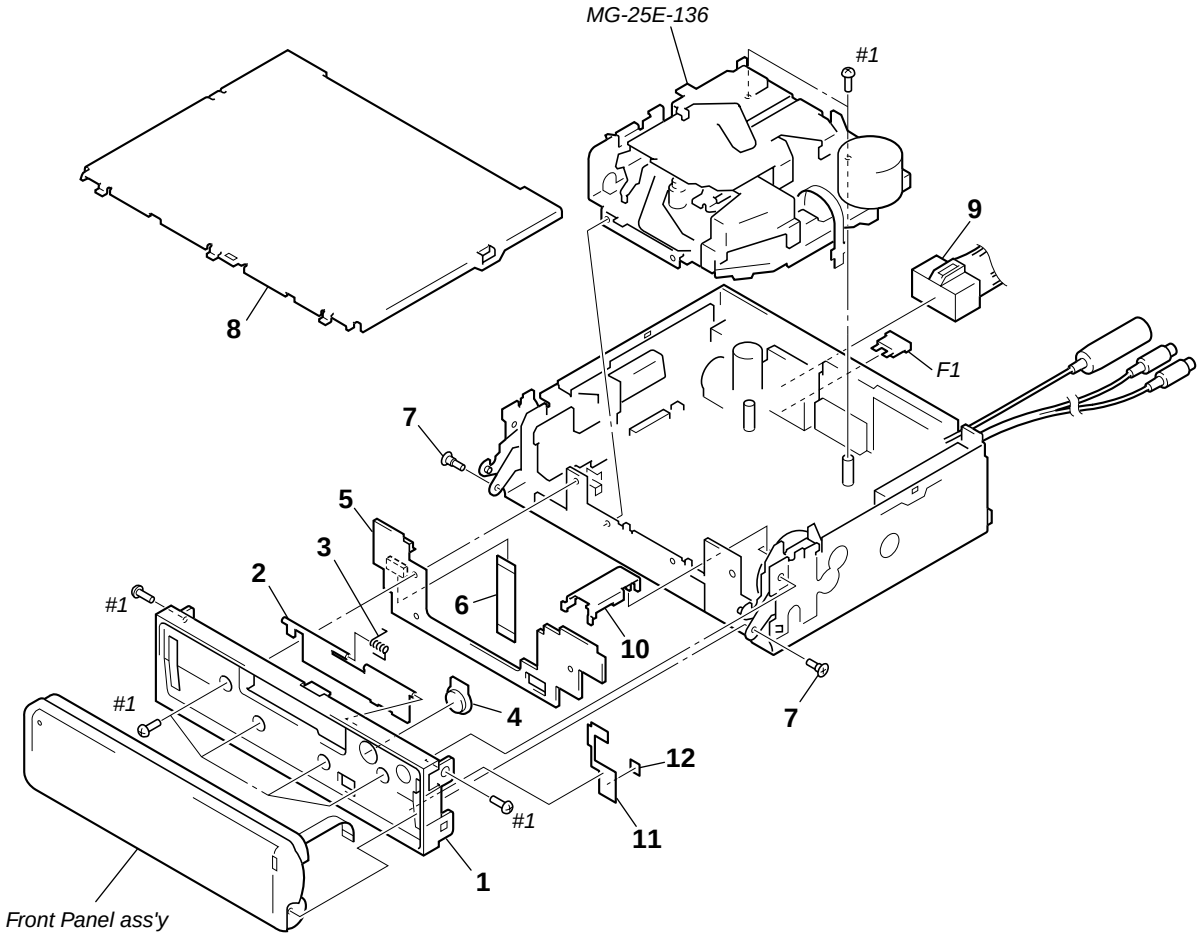
Pin No.	Pin Name	I/O	Description
111	P46/AN6/DA0	I	Not used (fixed at “L”)
112	P47/AN7/DA1	I	Not used (fixed at “L”)
113	AVSS	—	Ground terminal (for A/D converter)
114	VSS	—	Ground terminal
115 to 122	P17 to P10	O	Not used (open)
123	MD0	I	Setting terminal for the CPU operational mode (fixed at “H”)
124	MD1	I	Setting terminal for the CPU operational mode (fixed at “H”)
125	MD2	I	Setting terminal for the CPU operational mode (fixed at “H”)
126 to 128	PG0 to PG2	O	Not used (open)

SECTION 8
EXPLODED VIEWS

NOTE:

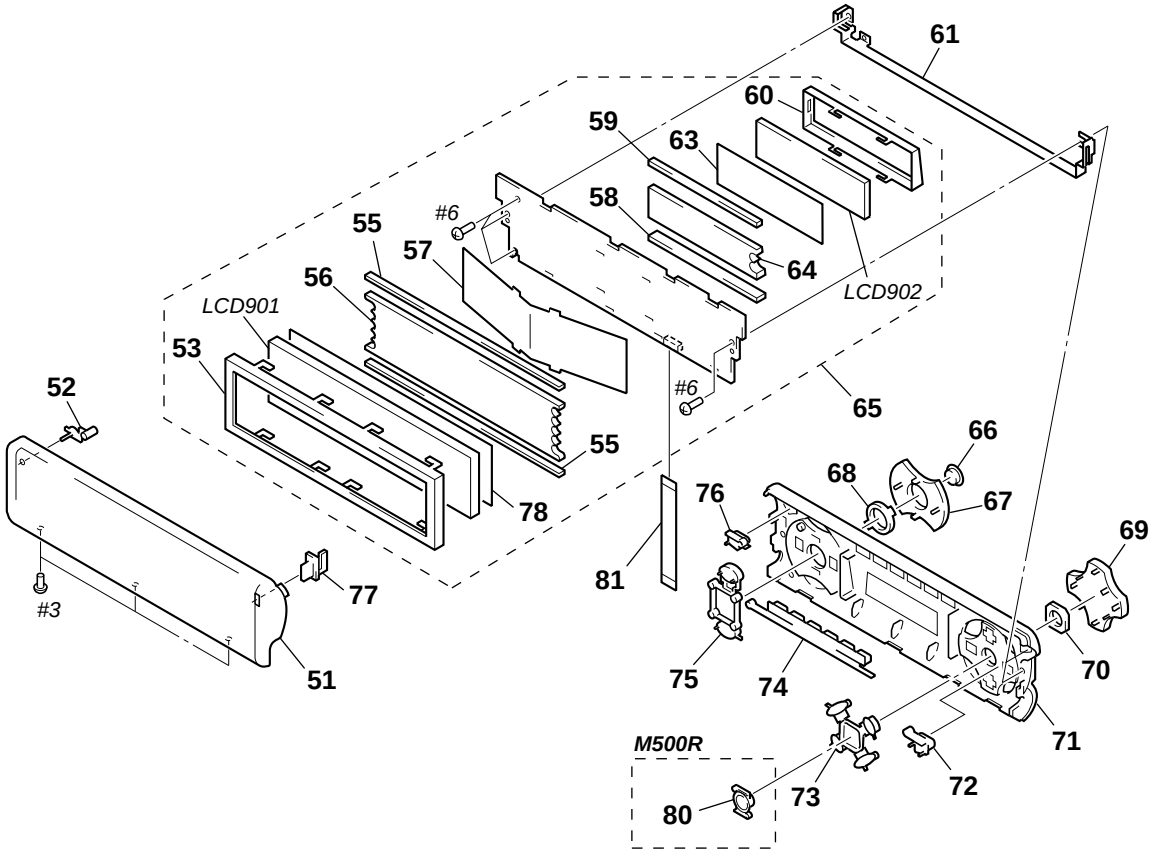
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.
- Please refer to servicing notes (page 3) for system of TYPE A, B, C and D.

(1) SUB PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	X-3378-724-1	PANEL (XR) SUB ASSY, SUB (M500R)	
1	X-3378-725-1	PANEL (XR) SUB ASSY, SUB (M550)	
2	3-044-475-01	DOOR, CASSETTE (M550)	
2	3-044-475-11	DOOR, CASSETTE (M500R)	
3	3-044-482-01	SPRING (CASSETTE DOOR)	
4	3-044-478-01	BUTTON (EJECT) (⏏)	
5	1-677-721-11	SUB BOARD	
6	1-792-584-11	CABLE, FLAT	
7	3-045-756-01	SCREW (PANEL)	
* 8	3-041-156-11	COVER	
9	1-792-194-11	CORD (WITH CONNECTOR) (POWER) (M550)	
9	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER) (M500R)	
* 10	3-045-762-01	COVER (FLEXIBLE)	
* 11	3-048-640-01	SHEET (SUB PANEL)	
* 12	3-049-388-01	CUSHION (SUB PANEL)	
F1	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE)	

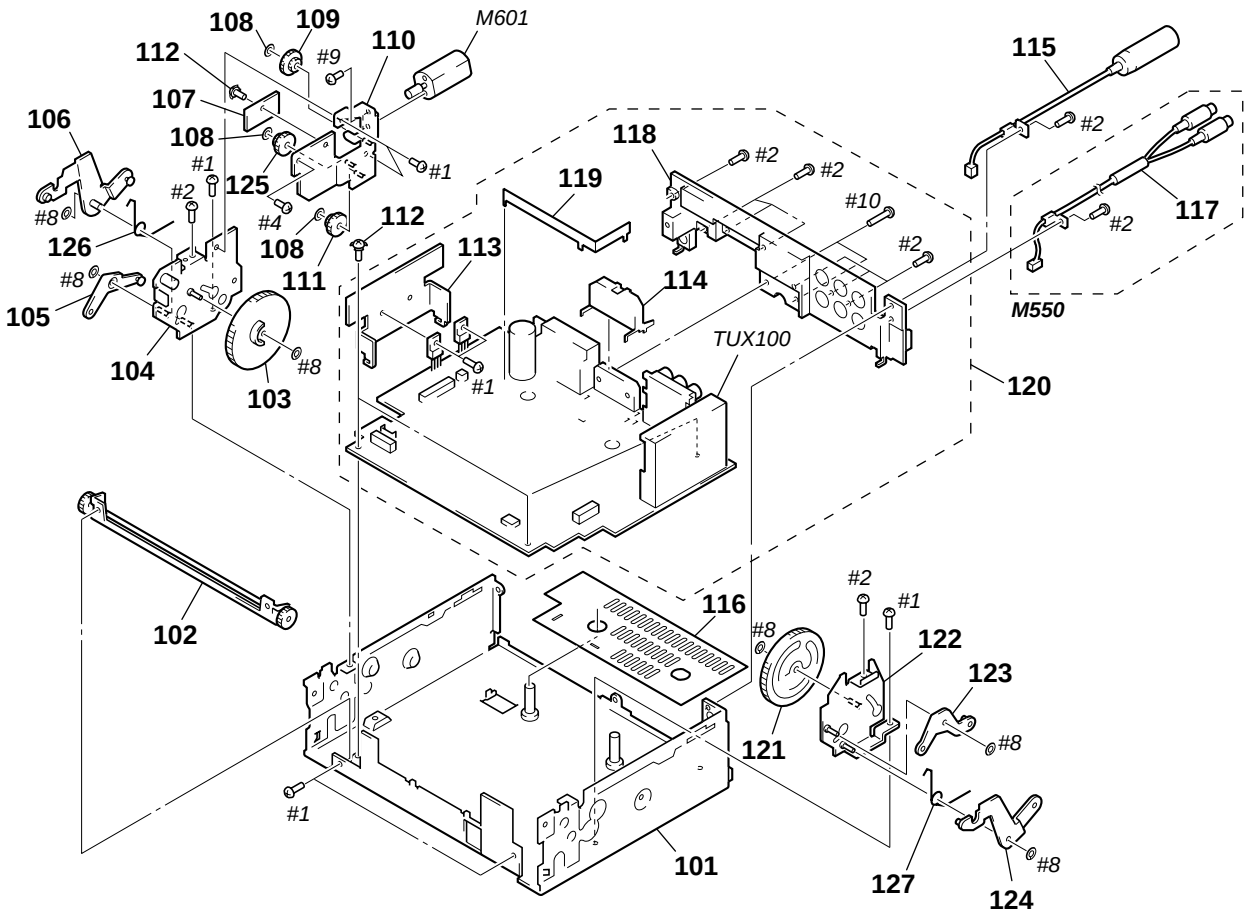
(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-3378-768-1	PANEL (MAIN) ASSY, FRONT	
52	3-045-781-01	BUTTON (RESET) (MAIN)	
53	3-045-702-01	BRACKET (LCD) (MAIN)	
55	1-694-685-11	CONDUCTIVE BOARD, CONNECTION	
* 56	3-045-703-01	PLATE (LCD) MAIN, LIGHT GUIDE	
* 57	3-045-705-01	SHEET (MAIN), REFLECTION	
58	1-694-686-11	CONDUCTIVE BOARD, CONNECTION	
59	1-694-687-11	CONDUCTIVE BOARD, CONNECTION	
* 60	3-045-706-01	BRACKET (LCD) (SUB)	
* 61	X-3378-710-1	BRACKET (PANEL) ASSY	
* 63	3-045-708-01	SHEET (SUB), DIFFUSION	
* 64	3-045-707-01	PLATE (LCD) SUB, LIGHIT GUIDE	
* 65	A-3294-886-A	DISPLAY BOARD, COMPLETE (M550)	
* 65	A-3294-895-A	DISPLAY BOARD, COMPLETE (M500R)	
66	3-045-726-01	BUTTON (SOURCE)	
67	3-045-725-01	BUTTON (+/-)	
68	3-045-727-01	PLATE (RING), LIGHT GUIDE	
69	3-045-730-01	BUTTON (SEEK) (DSO) (M500R) (DISC +,▶▶I ▶▶, - DISC, I◀◀)	

Ref. No.	Part No.	Description	Remark
69	3-045-739-01	BUTTON (SEEK) (M550) (DISC +,▶▶I ▶▶, - DISC, I◀◀)	
70	3-045-734-01	CUSHION (SEEK)	
71	3-044-469-11	PANEL (SUB), FRONT (M500R)	
71	3-044-469-21	PANEL (SUB), FRONT (M550)	
72	3-045-733-01	BUTTON (CLOSE)	
73	3-045-731-01	BUTTON (ENTER) (LIST, ENTER, SOUND, MENU)	
74	3-045-724-01	BUTTON (6KEY) (M550) (1, 2, 3, 4, 5, 6)	
74	3-045-724-11	BUTTON (6KEY) (M500R) (AF, 1, 2, 3, 4, 5, 6, TA)	
75	3-045-728-11	BUTTON (MODE) (DSPL, MODE ◀I▶)	
76	3-045-729-01	BUTTON (OFF)	
77	3-045-735-01	BUTTON (OPEN)	
* 78	3-045-705-01	SHEET (MAIN), REFLECTION	
80	3-045-732-01	BUTTON (D-BASS) (M500R)	
81	1-677-340-11	FLEXIBLE BOARD	
LCD901	1-803-913-11	DISPLAY PANEL, LIQUID CRYSTAL	
LCD902	1-803-914-11	DISPLAY PANEL, LIQUID CRYSTAL	

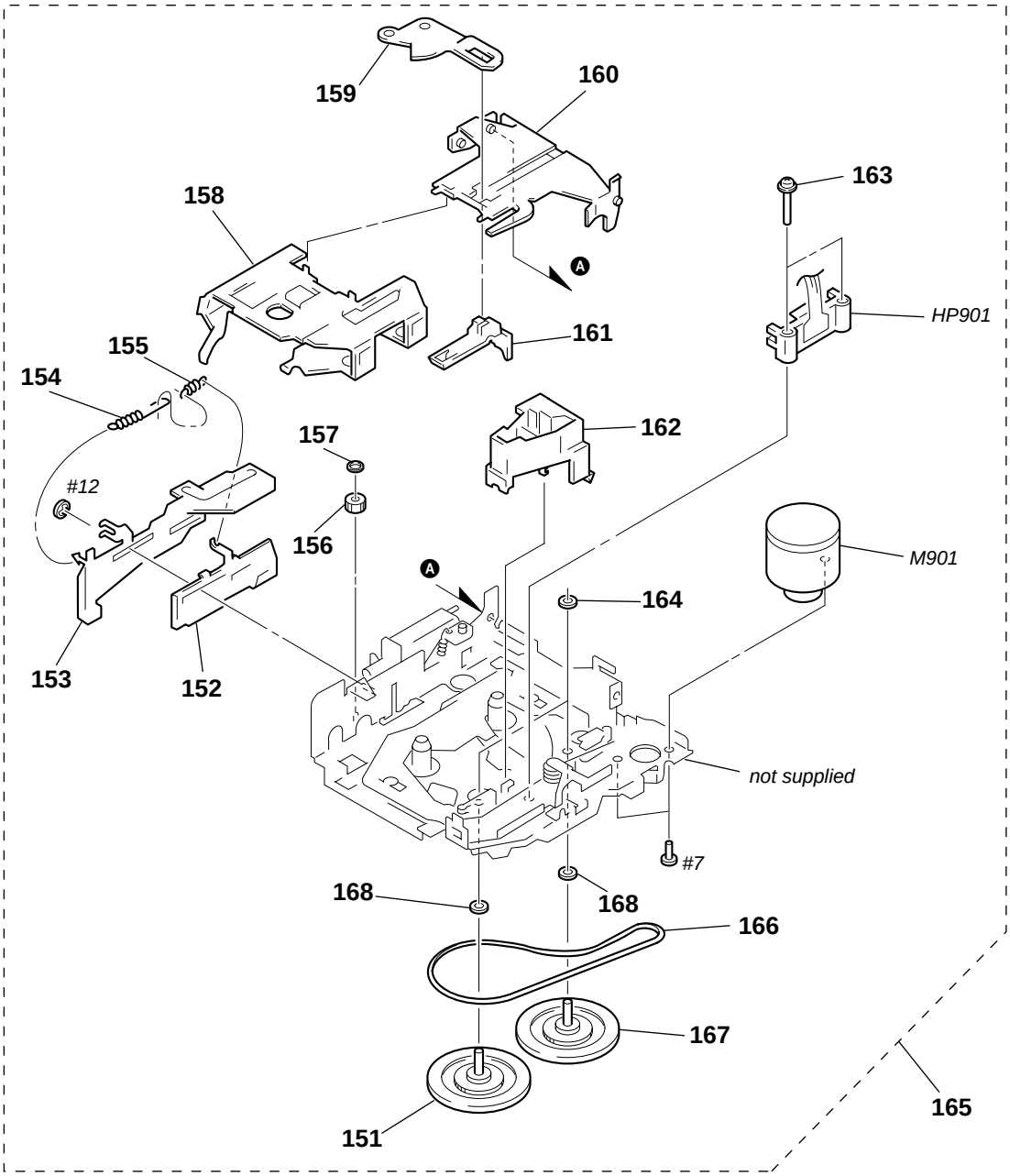
(3) MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark
* 101	X-3378-559-1	CHASSIS (XR) ASSY	
102	A-3315-066-A	SHAFT ASSY, DRIVE	
103	3-045-722-01	CAM (L)	
* 104	X-3378-713-1	BRACKET (L) ASSY	
105	X-3378-717-1	ARM (B-L) ASSY	
106	X-3378-715-1	ARM (A-L) ASSY	
107	A-3326-298-A	SWITCH BOARD, COMPLETE	
108	3-342-940-01	WASHER (M)	
109	3-045-713-01	GEAR (A)	
* 110	X-3378-711-1	BRACKET (MOTOR) ASSY	
111	3-045-715-01	GEAR (C)	
112	3-376-464-11	SCREW(+PTT 2.6X6),GROUND POINT	
113	3-045-759-01	HEAT SINK (REG)	
114	3-019-565-01	BRACKET (IC)	
115	1-777-246-31	CORD (WITH CONNECTOR) (ANT)	
* 116	3-049-689-01	SHEET, INSULATING	
117	1-790-375-21	CORD (WITH CONNECTOR) (SUB OUT(MONO)) (M550)	

Ref. No.	Part No.	Description	Remark
* 118	3-044-471-01	HEAT SINK (M550)	
* 118	3-044-471-11	HEAT SINK (M500R)	
* 119	3-047-525-01	PLATE (BUS, BAR), GROUND	
* 120	A-3294-887-A	MAIN BOARD, COMPLETE (M550)	
* 120	A-3294-889-A	MAIN BOARD, COMPLETE (M500R: TYPE C)	
* 120	A-3294-890-A	MAIN BOARD, COMPLETE (M500R: TYPE A)	
* 120	A-3294-891-A	MAIN BOARD, COMPLETE (M500R: TYPE D)	
* 120	A-3294-892-A	MAIN BOARD, COMPLETE (M500R: TYPE B)	
121	3-045-723-01	CAM (R)	
* 122	X-3378-714-1	BRACKET (R) ASSY	
123	X-3378-718-1	ARM (B-R) ASSY	
124	X-3378-716-1	ARM (A-R) ASSY	
125	3-045-714-01	GEAR (B)	
126	3-048-645-01	SPRING (ARM L)	
127	3-048-644-01	SPRING (ARM R)	
M601	X-3378-769-1	MOTOR ASSY (FRONT PANEL OPEN/CLOSE)	
TUX100	A-3220-738-A	FM/AM TUNER UNIT (TUX-020)	

(4) MECHANISM DECK SECTION (MG-25E-136)



Ref. No.	Part No.	Description	Remark
151	A-3291-667-A	CLUTCH (FR) ASSY	
* 152	3-019-130-01	LEVER (LDG-A)	
153	3-019-131-01	LEVER (LDG-B)	
154	3-020-539-01	SPRING (LD-1), TENSION	
155	3-020-540-01	SPRING (LD-2), TENSION	
156	3-020-542-01	GEAR (LOADING FT)	
157	3-341-753-11	WASHER, POLYETHYLENE	
158	3-020-533-01	HOUSING	
* 159	3-020-532-01	ARM (SUCTION)	
160	3-020-534-01	HANGER	
161	3-933-346-01	CATCHER	
162	3-933-344-01	GUIDE (C)	
163	3-014-798-01	SCREW (HEAD), SPECIAL	
164	3-364-151-01	WASHER	
165	A-3220-607-A	MECHANISM DECK ASSY	
166	3-017-302-01	BELT (25)	
167	3-936-853-01	FLYWHEEL (F)	
168	3-701-437-21	WASHER	
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)	
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	

SECTION 9
ELECTRICAL PARTS LIST

DISPLAY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Please refer to servicing notes (page 3) for system of TYPE A, B, C and D.
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
*	A-3294-886-A	DISPLAY BOARD, COMPLETE (M550)	
*	A-3294-895-A	DISPLAY BOARD, COMPLETE (M500R)	
		**********	
	1-694-685-11	CONDUCTIVE BOARD, CONNECTION	
	1-694-686-11	CONDUCTIVE BOARD, CONNECTION	
	1-694-687-11	CONDUCTIVE BOARD, CONNECTION	
*	3-045-702-01	BRACKET (LCD) (MAIN)	
*	3-045-703-01	PLATE (LCD) (MAIN), LIGHT GUIDE	
*	3-045-704-01	SHEET (MAIN), DIFFUSION	
*	3-045-705-01	SHEET (MAIN), REFLECTION	
*	3-045-706-01	BRACKET (LCD) (SUB)	
*	3-045-707-01	PLATE (LCD) SUB, LIGHT GUIDE	
*	3-045-708-01	SHEET (SUB), DIFFUSION	
		< CAPACITOR >	
C901	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C902	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C903	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C904	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C905	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C906	1-115-412-11	CERAMIC CHIP 680PF 5% 25V	
C907	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C908	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C909	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C910	1-165-176-11	CERAMIC CHIP 0.047uF 10% 16V	
C911	1-115-412-11	CERAMIC CHIP 680PF 5% 25V	
C912	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C913	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
		< CONNECTOR >	
CN901	1-794-184-21	CONNECTOR, FPC 14P	
		< DIODE >	
D902	8-719-422-41	DIODE MA8051-L-TX	
D903	8-719-977-12	DIODE MA8068-M-TX	
D904	8-719-977-12	DIODE MA8068-M-TX	
D905	8-719-977-12	DIODE MA8068-M-TX	
D906	8-719-977-12	DIODE MA8068-M-TX	
D907	8-719-977-12	DIODE MA8068-M-TX	
D908	8-719-420-14	DIODE MA8082-M (TX)	
D909	8-719-422-80	DIODE MA8075-H-TX	

Ref. No.	Part No.	Description	Remark
		< IC >	
IC901	8-759-653-26	IC LC75878W	
IC902	8-759-653-26	IC LC75878W	
IC903	8-749-012-25	IC RS-170-TU	
		< LIQUID CRYSTAL DISPLAY >	
LCD901	1-803-913-11	DISPLAY PANEL, LIQUID CRYSTAL	
LCD902	1-803-914-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< LED >	
LED901	8-719-076-58	LED NSSW440-BRS (ILLUMINATION)	
LED903	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED904	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED905	8-719-079-26	LED NSSB440-WRST-THR (LCD BACK LIGHT)	
LED906	8-719-079-26	LED NSSB440-WRST-THR (LCD BACK LIGHT)	
LED907	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED908	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED911	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED912	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED913	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED914	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED915	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED916	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED917	8-719-078-39	LED CL-170SR-CD-T (ILLUMINATION)	
LED918	8-719-078-39	LED CL-170SR-CD-T (ILLUMINATION)	
LED919	8-719-078-39	LED CL-170SR-CD-T (ILLUMINATION)	
LED920	8-719-078-39	LED CL-170SR-CD-T (ILLUMINATION)	
LED921	8-719-078-39	LED CL-170SR-CD-T (MODE ◄II►)	
		< SWITCH >	
LSW901	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (TA)	(M500R)
LSW902	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOUND)	
LSW903	1-771-883-11	SWITCH, TACTILE (WITH LED) (D-BASS)	(M500R)
LSW904	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (MENU)	
LSW905	1-771-883-11	SWITCH, TACTILE (WITH LED) (DISC +)	
LSW906	1-771-883-11	SWITCH, TACTILE (WITH LED) (I◄◄ ◄◄)	
LSW907	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (LIST)	
LSW908	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (►►I ►►)	
LSW909	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (ENTER)	
LSW910	1-771-883-11	SWITCH, TACTILE (WITH LED) (DIISC -)	
LSW911	1-771-883-11	SWITCH, TACTILE (WITH LED) (CLOSE)	

DISPLAY

Ref. No.	Part No.	Description	Remark
LSW912	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (OPEN)	
LSW913	1-771-883-11	SWITCH, TACTILE (WITH LED) (6)	
LSW914	1-771-883-11	SWITCH, TACTILE (WITH LED) (5)	
LSW915	1-771-883-11	SWITCH, TACTILE (WITH LED) (4)	
LSW916	1-771-883-11	SWITCH, TACTILE (WITH LED) (3)	
LSW917	1-771-883-11	SWITCH, TACTILE (WITH LED) (SHUF 2)	
LSW918	1-771-883-11	SWITCH, TACTILE (WITH LED) (REP 1)	
LSW919	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (AF)	(M500R)
LSW921	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (+)	
LSW922	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (PTY DSPL)	(M500R)
LSW922	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (DSPL)	(M550)
LSW923	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (-)	
LSW924	1-771-883-11	SWITCH, TACTILE (WITH LED) (OFF)	
LSW925	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOURCE)	
		< TRANSISTOR >	
Q901	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q902	8-729-106-60	TRANSISTOR 2SB1132-T101-QR	
Q903	8-729-106-60	TRANSISTOR 2SB1132-T101-QR	
Q904	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q905	8-729-904-66	TRANSISTOR DTD113EK-T-146	
Q906	8-729-904-66	TRANSISTOR DTD113EK-T-146	
Q910	8-729-900-53	TRANSISTOR DTC114EKA-T146	
		< RESISTOR >	
R901	1-218-879-11	RES-CHIP 22K 2%	1/16W
R902	1-218-875-11	RES-CHIP 15K 2%	1/16W
R903	1-218-871-11	RES-CHIP 10K 2%	1/16W
R904	1-218-867-11	RES-CHIP 6.8K 2%	1/16W
R905	1-218-859-11	RES-CHIP 3.3K 2%	1/16W
R906	1-218-859-11	RES-CHIP 3.3K 2%	1/16W
R907	1-218-855-11	RES-CHIP 2.2K 2%	1/16W
R908	1-218-851-11	RES-CHIP 1.5K 2%	1/16W
R909	1-218-851-11	RES-CHIP 1.5K 2%	1/16W
R910	1-218-847-11	RES-CHIP 1K 2%	1/16W
R911	1-219-286-11	RES-CHIP 680 2%	1/16W
R912	1-219-286-11	RES-CHIP 680 2%	1/16W
R913	1-219-286-11	RES-CHIP 680 2%	1/16W
R914	1-218-871-11	RES-CHIP 10K 2%	1/16W
R915	1-218-867-11	RES-CHIP 6.8K 2%	1/16W
R916	1-218-863-11	RES-CHIP 4.7K 2%	1/16W
R917	1-218-859-11	RES-CHIP 3.3K 2%	1/16W
R918	1-218-855-11	RES-CHIP 2.2K 2%	1/16W
R919	1-218-851-11	RES-CHIP 1.5K 2%	1/16W
R920	1-218-851-11	RES-CHIP 1.5K 2%	1/16W
R921	1-218-847-11	RES-CHIP 1K 2%	1/16W
R922	1-219-286-11	RES-CHIP 680 2%	1/16W
R923	1-219-286-11	RES-CHIP 680 2%	1/16W
R924	1-219-286-11	RES-CHIP 680 2%	1/16W
R926	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
R927	1-216-833-11	RES-CHIP 10K 5%	1/16W
R928	1-216-827-11	METAL CHIP 3.3K 5%	1/16W
R929	1-216-833-11	RES-CHIP 10K 5%	1/16W
R930	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
R931	1-216-827-11	METAL CHIP 3.3K 5%	1/16W

Ref. No.	Part No.	Description	Remark
R932	1-216-035-00	METAL CHIP 270 5%	1/10W
R933	1-216-025-00	RES-CHIP 100 5%	1/10W
R934	1-216-025-00	RES-CHIP 100 5%	1/10W
R935	1-216-025-00	RES-CHIP 100 5%	1/10W
R936	1-216-025-00	RES-CHIP 100 5%	1/10W
R937	1-216-025-00	RES-CHIP 100 5%	1/10W
R938	1-216-025-00	RES-CHIP 100 5%	1/10W
R940	1-216-025-00	RES-CHIP 100 5%	1/10W
R941	1-216-025-00	RES-CHIP 100 5%	1/10W
R942	1-216-025-00	RES-CHIP 100 5%	1/10W
R943	1-216-025-00	RES-CHIP 100 5%	1/10W
R945	1-216-035-00	METAL CHIP 270 5%	1/10W
R947	1-216-035-00	METAL CHIP 270 5%	1/10W
R949	1-216-029-00	METAL CHIP 150 5%	1/10W
R951	1-216-029-00	METAL CHIP 150 5%	1/10W
R953	1-216-029-00	METAL CHIP 150 5%	1/10W
R955	1-216-029-00	METAL CHIP 150 5%	1/10W
R957	1-216-029-00	METAL CHIP 150 5%	1/10W
R959	1-216-029-00	METAL CHIP 150 5%	1/10W
R961	1-216-029-00	METAL CHIP 150 5%	1/10W
R963	1-216-029-00	METAL CHIP 150 5%	1/10W
R964	1-216-811-11	METAL CHIP 150 5%	1/16W
R965	1-216-833-11	RES-CHIP 10K 5%	1/16W
R967	1-216-805-11	METAL CHIP 47 5%	1/16W
R968	1-216-821-11	METAL CHIP 1K 5%	1/16W
R969	1-216-809-11	METAL CHIP 100 5%	1/16W
R970	1-216-809-11	METAL CHIP 100 5%	1/16W
R971	1-216-809-11	METAL CHIP 100 5%	1/16W
R972	1-216-841-11	METAL CHIP 47K 5%	1/16W
R974	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R975	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R976	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R977	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R978	1-216-809-11	METAL CHIP 100 5%	1/16W
R979	1-216-809-11	METAL CHIP 100 5%	1/16W
R980	1-216-809-11	METAL CHIP 100 5%	1/16W
R981	1-216-821-11	METAL CHIP 1K 5%	1/16W
R982	1-216-841-11	METAL CHIP 47K 5%	1/16W
R984	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R985	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R986	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R987	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R988	1-216-037-00	METAL CHIP 330 5%	1/10W
R989	1-216-821-11	METAL CHIP 1K 5%	1/16W
R990	1-216-025-00	RES-CHIP 100 5%	1/10W (M550)
R991	1-216-025-00	RES-CHIP 100 5%	1/10W (M550)
R992	1-216-025-00	RES-CHIP 100 5%	1/10W (M550)
		< SWITCH >	
S901	1-771-027-21	SWITCH, KEYBOARD (RESET)	
S902	1-771-884-11	SWITCH, TACTILE (MODE ◄I►)	

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Ref. No.	Part No.	Description			Remark
*	A-3294-887-A	MAIN BOARD, COMPLETE (M550)			
*	A-3294-889-A	MAIN BOARD, COMPLETE (M500R: TYPE C)			
*	A-3294-890-A	MAIN BOARD, COMPLETE (M500R: TYPE A)			
*	A-3294-891-A	MAIN BOARD, COMPLETE (M500R: TYPE D)			
*	A-3294-892-A	MAIN BOARD, COMPLETE (M500R: TYPE B)			
		**********			
*	3-019-565-01	BRACKET (IC)			
*	3-044-471-01	HEAT SINK (M550)			
*	3-044-471-11	HEAT SINK (M500R)			
*	3-045-759-01	HEAT SINK (REG)			
	7-685-792-09	SCREW +PTT 2.6X6 (S)			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-794-09	SCREW +PTT 2.6X10 (S)			
		< BUZZER >			
BZ600	1-529-078-11	BUZZER, PIEZOELECTRIC			
		< CAPACITOR/SHORT >			
C101	1-164-346-11	CERAMIC CHIP	1uF		16V
C102	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C103	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C105	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C106	1-124-589-11	ELECT	47uF	20%	16V
C107	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C108	1-124-589-11	ELECT	47uF	20%	16V
C110	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C111	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C113	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C114	1-104-942-11	ELECT	1uF	20%	50V
C115	1-104-942-11	ELECT	1uF	20%	50V
C116	1-164-346-11	CERAMIC CHIP	1uF		16V
C118	1-164-346-11	CERAMIC CHIP	1uF		16V
C119	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C120	1-164-346-11	CERAMIC CHIP	1uF		16V
C121	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C123	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C124	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C125	1-124-589-11	ELECT	47uF	20%	16V
C126	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C127	1-124-584-00	ELECT	100uF	20%	10V (M550)
C127	1-126-157-11	ELECT	10uF	20%	16V (M500R)
C128	1-164-346-11	CERAMIC CHIP	1uF		16V (M550)
C128	1-216-295-00	SHORT	0 (M500R)		
C129	1-164-346-11	CERAMIC CHIP	1uF		16V (M550)
C129	1-216-295-00	SHORT	0 (M500R)		
C130	1-164-346-11	CERAMIC CHIP	1uF		16V (M550)
C130	1-216-295-00	SHORT	0 (M500R)		
C131	1-164-346-11	CERAMIC CHIP	1uF		16V (M550)
C131	1-216-295-00	SHORT	0 (M500R)		
C132	1-164-346-11	CERAMIC CHIP	1uF		16V (M550)
C137	1-164-346-11	CERAMIC CHIP	1uF		16V
C138	1-164-346-11	CERAMIC CHIP	1uF		16V
C139	1-164-346-11	CERAMIC CHIP	1uF		16V
C140	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C141	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C142	1-164-346-11	CERAMIC CHIP	1uF		16V
C143	1-126-157-11	ELECT	10uF	20%	16V
C144	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C145	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C146	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C147	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C148	1-126-157-11	ELECT	10uF	20%	16V
C150	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C168	1-163-038-00	CERAMIC CHIP	0.1uF		25V (M550)
C170	1-124-234-00	ELECT	22uF	20%	16V (M550)
C200	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V (M550)
C201	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V (M550)
C202	1-125-972-61	ELECT	100uF	20%	16V (M550)
C203	1-125-972-61	ELECT	100uF	20%	16V (M550)
C204	1-126-157-11	ELECT	10uF	20%	16V
C205	1-126-157-11	ELECT	10uF	20%	16V
C206	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (M550)
C208	1-163-038-00	CERAMIC CHIP	0.1uF		25V (M550)
C208	1-164-222-11	CERAMIC CHIP	0.22uF		25V (M500R)
C209	1-163-038-00	CERAMIC CHIP	0.1uF		25V (M550)
C209	1-164-222-11	CERAMIC CHIP	0.22uF		25V (M500R)
C210	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (M550)
C211	1-126-157-11	ELECT	10uF	20%	16V (M550)
C220	1-124-234-00	ELECT	22uF	20%	16V (M550)
C221	1-124-234-00	ELECT	22uF	20%	16V (M550)
C222	1-126-157-11	ELECT	10uF	20%	16V (M550)
C223	1-126-159-11	ELECT	0.47uF	20%	50V (M500R)
C224	1-125-972-61	ELECT	100uF	20%	16V
C225	1-104-942-11	ELECT	1uF	20%	50V (M550)
C226	1-104-942-11	ELECT	1uF	20%	50V
C227	1-164-346-11	CERAMIC CHIP	1uF		16V (M550)
C228	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (M550)
C229	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V (M550)
C250	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V (M550)
C251	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V (M550)

MAIN

Ref. No.	Part No.	Description			Remark
C252	1-125-972-61	ELECT	100uF	20%	16V (M550)
C253	1-125-972-61	ELECT	100uF	20%	16V (M550)
C254	1-126-157-11	ELECT	10uF	20%	16V
C255	1-126-157-11	ELECT	10uF	20%	16V
C258	1-163-038-00	CERAMIC CHIP	0.1uF		25V (M550)
C258	1-164-222-11	CERAMIC CHIP	0.22uF		25V (M500R)
C259	1-163-038-00	CERAMIC CHIP	0.1uF		25V (M550)
C259	1-164-222-11	CERAMIC CHIP	0.22uF		25V (M500R)
C260	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V (M550)
C261	1-126-157-11	ELECT	10uF	20%	16V (M550)
C269	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V (M550)
C304	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C305	1-126-157-11	ELECT	10uF	20%	16V
C306	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C307	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C308	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C309	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C310	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C311	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C312	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C313	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C314	1-126-572-11	ELECT	4.7uF	20%	35V
C315	1-126-572-11	ELECT	4.7uF	20%	35V
C316	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C317	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C318	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C319	1-111-233-11	ELECT	5600uF	20%	16V
C320	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C321	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V (M550)
C400	1-164-222-11	CERAMIC CHIP	0.22uF		25V (M500R)
C401	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C402	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C403	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C404	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C405	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C406	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C407	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C408	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C409	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C410	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C411	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C412	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C413	1-126-157-11	ELECT	10uF	20%	16V
C414	1-124-234-00	ELECT	22uF	20%	16V
C415	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C416	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C417	1-124-234-00	ELECT	22uF	20%	16V
C418	1-124-589-11	ELECT	47uF	20%	16V

Ref. No.	Part No.	Description			Remark
C419	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C420	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C421	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C422	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C423	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C424	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C425	1-126-935-11	ELECT	470uF	20%	16V
C426	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C427	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C500	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C501	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C502	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C503	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C504	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C505	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C506	1-124-229-00	ELECT	33uF	20%	10V
C507	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C508	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C509	1-124-589-11	ELECT	47uF	20%	16V
C510	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C511	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C512	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C513	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C514	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C601	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V (M500R)
C601	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V (M550)
C602	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C603	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C604	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C605	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C606	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
C607	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C608	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C609	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C610	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C611	1-126-157-11	ELECT	10uF	20%	16V
C612	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C613	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C614	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C615	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C616	1-124-584-00	ELECT	100uF	20%	10V
C617	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C618	1-110-654-11	ELECT (BLOCK)	0.047F		0V
C619	1-128-057-11	ELECT	330uF	20%	6.3V
C620	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C621	1-124-589-11	ELECT	47uF	20%	16V
C622	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C623	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C624	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C625	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C626	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C627	1-126-154-11	ELECT	47uF	20%	6.3V
C628	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C629	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C630	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C631	1-163-038-00	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C632	1-126-157-11	ELECT	10uF	20%	16V
C633	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C634	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C635	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C636	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C637	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C670	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C671	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C700	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V (M500R)
C701	1-163-263-11	CERAMIC CHIP	330PF	5%	50V (M500R)
C702	1-163-135-00	CERAMIC CHIP	560PF	5%	50V (M500R)
C703	1-164-505-11	CERAMIC CHIP	2.2uF		16V (M500R)
C704	1-163-038-00	CERAMIC CHIP	0.1uF		25V (M500R)
C705	1-163-038-00	CERAMIC CHIP	0.1uF		25V (M500R)
C707	1-163-237-11	CERAMIC CHIP	27PF	5%	50V (M500R)
C708	1-163-237-11	CERAMIC CHIP	27PF	5%	50V (M500R)
C709	1-163-038-00	CERAMIC CHIP	0.1uF		25V (M500R)
C710	1-163-133-00	CERAMIC CHIP	470PF	5%	50V (M500R)
C713	1-124-589-11	ELECT	47uF	20%	16V (M500R)
C750	1-163-038-00	CERAMIC CHIP	0.1uF		25V (M500R)
C751	1-163-133-00	CERAMIC CHIP	470PF	5%	50V (M500R)
C752	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V (M500R)
C753	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V (M500R)
C754	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V (M500R)
C755	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V (M500R)
C756	1-164-005-11	CERAMIC CHIP	0.47uF		25V (M500R)
C757	1-163-038-00	CERAMIC CHIP	0.1uF		25V (M500R)
C758	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V (M500R)
		< CONNECTOR/JACK >			
* CN100	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
* CN200	1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P (M550)			
CN300	1-794-068-11	JACK, PIN 6P (BUS AUDIO IN, AUDIO OUT REAR/FRONT)			
CN301	1-774-701-11	PIN, CONNECTOR 16P			
* CN400	1-506-995-11	PIN, CONNECTOR (PC BOARD) 13P			
CN401	1-766-260-11	CONNECTOR, FFC/FPC (ZIF) 7P			
CN402	1-794-185-21	CONNECTOR, FPC 14P			
CN500	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)			
* CN501	1-568-951-11	PIN, CONNECTOR 2P			
* CN601	1-764-908-11	CONNECTOR, FFC/FPC (ZIF) 10P			

Ref. No.	Part No.	Description	Remark
CN602	1-506-468-11	PIN, CONNECTOR 3P	
		< DIODE >	
D100	8-719-065-09	DIODE 02DZ5.1-Y (TPH3)	
D101	8-719-074-47	DIODE CRS02 (TE85L)	
D102	8-719-065-00	DIODE 02DZ3.9-X (TPH3)	
D103	8-719-065-00	DIODE 02DZ3.9-X (TPH3)	
D104	8-719-988-61	DIODE 1SS355TE-17	
D105	8-719-058-24	DIODE RB501V-40TE-17 (M550)	
D200	8-719-065-00	DIODE 02DZ3.9-X (TPH3) (M550)	
D201	8-719-073-01	DIODE MA111-TX	
D202	8-719-073-01	DIODE MA111-TX	
D203	8-719-065-00	DIODE 02DZ3.9-X (TPH3)	
D204	8-719-065-00	DIODE 02DZ3.9-X (TPH3)	
D205	8-719-065-13	DIODE 02DZ5.6-Z (TPH3)	
D206	8-719-801-78	DIODE 1SS184	
D300	8-719-074-47	DIODE CRS02 (TE85L) (M550)	
D300	8-719-079-97	DIODE CRZ22 (TE85L. SONY) (M500R)	
D301	8-719-074-47	DIODE CRS02 (TE85L) (M550)	
D301	8-719-079-97	DIODE CRZ22 (TE85L. SONY) (M500R)	
D302	8-719-074-47	DIODE CRS02 (TE85L) (M550)	
D302	8-719-079-97	DIODE CRZ22 (TE85L. SONY) (M500R)	
D303	8-719-074-47	DIODE CRS02 (TE85L) (M550)	
D303	8-719-079-97	DIODE CRZ22 (TE85L. SONY) (M500R)	
D304	8-719-074-47	DIODE CRS02 (TE85L) (M550)	
D304	8-719-079-97	DIODE CRZ22 (TE85L. SONY) (M500R)	
D305	8-719-074-47	DIODE CRS02 (TE85L) (M550)	
D305	8-719-079-97	DIODE CRZ22 (TE85L. SONY) (M500R)	
D306	8-719-074-47	DIODE CRS02 (TE85L) (M550)	
D306	8-719-079-97	DIODE CRZ22 (TE85L. SONY) (M500R)	
D307	8-719-074-47	DIODE CRS02 (TE85L) (M550)	
D307	8-719-079-97	DIODE CRZ22 (TE85L. SONY) (M500R)	
D308	8-719-074-47	DIODE CRS02 (TE85L)	
D309	8-719-074-47	DIODE CRS02 (TE85L)	
D310	8-719-074-47	DIODE CRS02 (TE85L)	
D311	8-719-074-47	DIODE CRS02 (TE85L)	
D312	8-719-065-48	DIODE 02DZ18-Y (TPH3)	
D315	8-719-073-01	DIODE MA111-TX	
D316	8-719-073-01	DIODE MA111-TX	
D317	8-719-049-38	DIODE 1N5404TU	
D318	8-719-065-09	DIODE 02DZ5.1-Y (TPH3)	
D320	8-719-065-13	DIODE 02DZ5.6-Z (TPH3)	
D400	8-719-065-28	DIODE 02DZ9.1-Z (TPH3)	
D401	8-719-074-47	DIODE CRS02 (TE85L)	
D500	8-719-073-01	DIODE MA111-TX	
D501	8-719-073-01	DIODE MA111-TX	
D502	8-719-073-01	DIODE MA111-TX	
D503	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D504	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D505	8-719-065-46	DIODE 02DZ16-Z (TPH3)	
D506	8-719-065-48	DIODE 02DZ18-Y (TPH3)	
D507	8-719-065-48	DIODE 02DZ18-Y (TPH3)	
D508	8-719-065-16	DIODE 02DZ6.2-Z (TPH3)	
D509	8-719-801-78	DIODE 1SS184-TE85L	
D510	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D511	8-719-058-24	DIODE RB501V-40TE-17	
D512	8-719-065-48	DIODE 02DZ18-Y (TPH3)	
D513	8-719-073-01	DIODE MA111-TX	

MAIN

Ref. No.	Part No.	Description	Remark
D515	8-719-073-01	DIODE MA111-TX	
D516	8-719-073-01	DIODE MA111-TX	
D601	8-719-073-01	DIODE MA111-TX	
D602	8-719-067-56	DIODE MA112-TX	
D603	8-719-073-01	DIODE MA111-TX	
D604	8-719-067-56	DIODE MA112-TX	
D606	8-719-073-01	DIODE MA111-TX	
D607	8-719-073-01	DIODE MA111-TX	
D608	8-719-067-56	DIODE MA112-TX	
D609	8-719-801-78	DIODE 1SS184-TE85L	
D610	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D611	8-719-073-01	DIODE MA111-TX	
D612	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D613	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D617	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D618	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D619	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D620	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D621	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D623	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D624	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D625	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D626	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)	
D627	8-719-820-05	DIODE 1SS181-TE85L	
D628	8-719-820-05	DIODE 1SS181-TE85L	
D701	8-719-065-09	DIODE 02DZ5.1-Y (TPH3) (M500R)	
D750	8-719-421-69	DIODE MA133-TX (M500R)	
		< SHORT >	
FB10	1-216-295-00	SHORT 0	
FB11	1-216-295-00	SHORT 0	
FB12	1-216-295-00	SHORT 0	
FB13	1-216-295-00	SHORT 0	
FB16	1-216-295-00	SHORT 0	
		< IC >	
IC100	8-759-653-27	IC TDA7402TR	
IC101	8-759-385-17	IC NJM4580E (TE2)	
IC102	8-759-392-22	IC BA3834F	
IC200	8-759-593-97	IC NJM2160AM-TE2 (M550)	
IC201	8-759-593-97	IC NJM2160AM-TE2 (M550)	
IC202	8-759-385-17	IC NJM4580E (TE2) (M550)	
IC300	8-759-660-96	IC TDA7560 (M550)	
IC300	8-759-663-88	IC TA8268H (M500R)	
IC400	8-759-527-33	IC LB1930M-TLM	
IC401	8-752-079-79	IC CXA2510AQ-T4	
IC500	8-759-701-01	IC NJM2904M	
IC501	8-759-593-98	IC BA8270FV-E2	
IC502	8-759-580-33	IC BA6288FS-E2	
IC503	8-759-668-14	IC PQ09DZ1U	
IC601	8-759-688-45	IC MB90574BPMT-G-262-BND (M550)	
IC601	8-759-668-46	IC MB90574BPMT-G-257-BND (M500R)	
IC602	8-759-571-49	IC XC61AN4102PR	
IC603	8-759-495-76	IC RN5VD33AA-TL	
IC604	8-759-540-27	IC TA78DL06AS	
IC605	8-759-528-47	IC PQ09RA11	
IC606	8-759-277-63	IC TC7W14FU (TE12R)	
IC607	8-759-678-51	IC HD6432355A22F	
IC700	8-759-650-68	IC SAA6588T/V2-118 (M500R)	
IC750	8-759-385-17	IC NJM4580E (TE2) (M500R)	
		< JACK >	
J500	1-764-270-21	JACK (REMOTE IN)	
		< COIL >	
L17	1-469-549-21	INDUCTOR 1uH	
L300	1-419-476-31	INDUCTOR 250uH	
L700	1-469-555-21	INDUCTOR 10uH (M500R)	
		< TRANSISTOR >	
Q100	8-729-920-86	TRANSISTOR 2SD1664-QR	
Q101	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q102	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q103	8-729-903-46	TRANSISTOR 2SB1132-T100-QR	
Q104	8-729-207-56	TRANSISTOR RN1402-TE85L	
Q105	8-729-020-67	TRANSISTOR XN1A312-TX	
Q106	8-729-230-49	TRANSISTOR 2SC2712L-TE85L	
Q107	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
Q200	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q201	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q204	8-729-920-21	TRANSISTOR DTC314TK-T-146 (M550)	
Q220	8-729-207-68	TRANSISTOR RN2402-TE85L	
Q221	8-729-144-85	FET 2SK1133-T1B	
Q222	8-729-144-85	FET 2SK1133-T1B	
Q223	8-729-230-49	TRANSISTOR 2SC2712L-TE85L	
Q250	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q251	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q254	8-729-920-21	TRANSISTOR DTC314TK-T-146 (M550)	
Q300	8-729-207-56	TRANSISTOR RN1402-TE85L	
Q301	8-729-041-38	TRANSISTOR 2SB1241TV2Q	
Q302	8-729-207-56	TRANSISTOR RN1402-TE85L	
Q303	8-729-041-38	TRANSISTOR 2SB1241TV2Q	
Q400	8-729-931-15	TRANSISTOR 2SD1858-R-TV2	
Q401	8-729-020-67	TRANSISTOR XN1A312-TX	
Q402	8-729-903-46	TRANSISTOR 2SB1132-T100-QR	
Q403	8-729-207-56	TRANSISTOR RN1402-TE85L	
Q404	8-729-207-56	TRANSISTOR RN1402-TE85L	
Q500	8-729-207-56	TRANSISTOR RN1402-TE85L	
Q501	8-729-230-49	TRANSISTOR 2SC2712L-TE85L	
Q502	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
Q503	8-729-230-49	TRANSISTOR 2SC2712L-TE85L	
Q504	8-729-207-56	TRANSISTOR RN1402-TE85L	
Q505	8-729-216-22	TRANSISTOR 2SA1162-YG-TE85L	
Q506	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q600	8-729-207-68	TRANSISTOR RN2402-TE85L	
Q601	8-729-207-68	TRANSISTOR RN2402-TE85L	
Q603	8-729-230-49	TRANSISTOR 2SC2712L-TE85L	
Q604	8-729-207-56	TRANSISTOR RN1402-TE85L	
Q605	8-729-920-86	TRANSISTOR 2SD1664-QR	
Q606	8-729-020-67	TRANSISTOR XN1A312-TX	
Q607	8-729-230-49	TRANSISTOR 2SC2712L-TE85L	
Q608	8-729-230-49	TRANSISTOR 2SC2712L-TE85L	
Q611	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q750	8-729-230-49	TRANSISTOR 2SC2712L-TE85L (M500R)	
Q751	8-729-207-56	TRANSISTOR RN1402-TE85L (M500R)	

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R100	1-216-049-11	RES-CHIP	1K	5%	1/10W
R101	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R102	1-216-025-00	RES-CHIP	100	5%	1/10W
R103	1-216-025-00	RES-CHIP	100	5%	1/10W
R105	1-216-295-00	SHORT	0		
R106	1-216-089-00	RES-CHIP	47K	5%	1/10W
R107	1-216-085-00	METAL CHIP	33K	5%	1/10W
R109	1-216-025-00	RES-CHIP	100	5%	1/10W
R110	1-216-025-00	RES-CHIP	100	5%	1/10W
R111	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R112	1-216-073-00	METAL CHIP	10K	5%	1/10W
R113	1-216-073-00	METAL CHIP	10K	5%	1/10W
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W
R115	1-216-073-00	METAL CHIP	10K	5%	1/10W
R116	1-216-073-00	METAL CHIP	10K	5%	1/10W
R117	1-216-833-11	RES-CHIP	10K	5%	1/16W
R118	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R119	1-216-001-00	METAL CHIP	10	5%	1/10W
R120	1-216-073-00	METAL CHIP	10K	5%	1/10W
R121	1-216-073-00	METAL CHIP	10K	5%	1/10W
R122	1-216-097-00	RES-CHIP	100K	5%	1/10W
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W
R124	1-216-073-00	METAL CHIP	10K	5%	1/10W
R125	1-216-073-00	METAL CHIP	10K	5%	1/10W
R126	1-216-073-00	METAL CHIP	10K	5%	1/10W
R127	1-216-819-11	METAL CHIP	680	5%	1/16W
R128	1-216-037-00	METAL CHIP	330	5%	1/10W
R129	1-216-295-00	SHORT	0 (M550)		
R130	1-216-089-00	RES-CHIP	47K	5%	1/10W
R131	1-216-864-11	SHORT	0 (M500R)		
R200	1-216-049-11	RES-CHIP	1K	5%	1/10W (M550)
R200	1-216-295-00	SHORT	0 (M500R)		
R201	1-216-049-11	RES-CHIP	1K	5%	1/10W (M550)
R201	1-216-295-00	SHORT	0 (M500R)		
R202	1-218-725-11	RES-CHIP	24K	5%	1/16W (M550)
R203	1-218-725-11	RES-CHIP	24K	5%	1/16W (M550)
R204	1-202-926-11	RES-CHIP	36K	5%	1/16W (M550)
R205	1-202-926-11	RES-CHIP	36K	5%	1/16W (M550)
R206	1-216-033-00	METAL CHIP	220	5%	1/10W
R207	1-216-033-00	METAL CHIP	220	5%	1/10W
R208	1-216-081-00	METAL CHIP	22K	5%	1/10W
R209	1-216-081-00	METAL CHIP	22K	5%	1/10W
R214	1-216-097-00	RES-CHIP	100K	5%	1/10W (M550)
R215	1-216-081-00	METAL CHIP	22K	5%	1/10W
R216	1-216-085-00	METAL CHIP	33K	5%	1/10W (M550)
R217	1-216-033-00	METAL CHIP	220	5%	1/10W (M550)
R218	1-216-081-00	METAL CHIP	22K	5%	1/10W (M550)
R220	1-216-837-11	METAL CHIP	22K	5%	1/16W (M550)
R220	1-216-841-11	METAL CHIP	47K	5%	1/16W (M500R)
R221	1-216-805-11	METAL CHIP	47	5%	1/16W
R222	1-216-841-11	METAL CHIP	47K	5%	1/16W (M550)
R223	1-216-073-00	METAL CHIP	10K	5%	1/10W
R224	1-216-049-11	RES-CHIP	1K	5%	1/10W (M500R)
R224	1-216-295-00	SHORT	0 (M550)		
R225	1-216-845-11	METAL CHIP	100K	5%	1/16W
R226	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (M550)
R227	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (M550)
R228	8-719-058-24	DIODE RB501V-40TE-17			
R229	1-216-298-00	METAL CHIP	2.2	5%	1/10W (M550)
R230	1-216-049-11	METAL CHIP	1K	5%	1/10W
R231	1-216-049-11	METAL CHIP	1K	5%	1/10W
R232	1-216-845-11	METAL CHIP	100K	5%	1/16W
R233	1-216-841-11	METAL CHIP	47K	5%	1/16W
R234	1-216-845-11	METAL CHIP	100K	5%	1/16W
R250	1-216-049-11	RES-CHIP	1K	5%	1/10W (M550)
R250	1-216-295-00	SHORT	0 (M500R)		
R251	1-216-049-11	RES-CHIP	1K	5%	1/10W (M550)
R251	1-216-295-00	SHORT	0 (M500R)		
R252	1-218-725-11	RES-CHIP	24K	5%	1/16W (M550)
R253	1-218-725-11	RES-CHIP	24K	5%	1/16W (M550)
R254	1-202-926-11	RES-CHIP	36K	5%	1/16W (M550)
R255	1-202-926-11	RES-CHIP	36K	5%	1/16W (M550)
R256	1-216-033-00	METAL CHIP	220	5%	1/10W
R257	1-216-033-00	METAL CHIP	220	5%	1/10W
R258	1-216-081-00	METAL CHIP	22K	5%	1/10W
R259	1-216-081-00	METAL CHIP	22K	5%	1/10W
R260	1-216-049-11	METAL CHIP	1K	5%	1/10W
R261	1-216-049-11	METAL CHIP	1K	5%	1/10W
R265	1-216-081-00	METAL CHIP	22K	5%	1/10W
R266	1-216-085-00	METAL CHIP	33K	5%	1/10W (M550)
R267	1-216-033-00	METAL CHIP	220	5%	1/10W (M550)
R268	1-216-081-00	METAL CHIP	22K	5%	1/10W (M550)
R300	1-216-085-00	METAL CHIP	33K	5%	1/10W
R301	1-216-085-00	METAL CHIP	33K	5%	1/10W
R302	1-216-049-11	RES-CHIP	1K	5%	1/10W
R304	1-216-049-11	RES-CHIP	1K	5%	1/10W
R308	1-216-025-00	RES-CHIP	100	5%	1/10W
R309	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R310	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R311	1-216-089-00	RES-CHIP	47K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R312	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R313	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R314	1-216-089-00	RES-CHIP	47K	5%	1/10W
R316	1-216-295-00	SHORT	0		
R317	1-216-230-00	RES-CHIP	22K	5%	1/8W
R330	1-216-049-11	RES-CHIP	1K	5%	1/10W
R400	1-216-097-00	RES-CHIP	100K	5%	1/10W
R401	1-216-097-00	RES-CHIP	100K	5%	1/10W
R402	1-216-097-00	RES-CHIP	100K	5%	1/10W
R403	1-216-097-00	RES-CHIP	100K	5%	1/10W
R404	1-216-027-00	METAL CHIP	120	5%	1/10W
R405	1-216-027-00	METAL CHIP	120	5%	1/10W
R406	1-216-109-00	METAL CHIP	330K	5%	1/10W
R407	1-216-109-00	METAL CHIP	330K	5%	1/10W
R408	1-216-075-00	METAL CHIP	12K	5%	1/10W
R409	1-216-079-00	METAL CHIP	18K	5%	1/10W
R410	1-216-079-00	METAL CHIP	18K	5%	1/10W
R411	1-216-075-00	METAL CHIP	12K	5%	1/10W
R412	1-216-198-00	RES-CHIP	1K	5%	1/8W
R413	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R414	1-216-150-00	RES-CHIP	10	5%	1/8W
R415	1-216-150-00	RES-CHIP	10	5%	1/8W
R416	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R417	1-216-150-00	RES-CHIP	10	5%	1/8W
R418	1-216-150-00	RES-CHIP	10	5%	1/8W
R419	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R420	1-216-073-00	METAL CHIP	10K	5%	1/10W
R421	1-216-073-00	METAL CHIP	10K	5%	1/10W
R422	1-216-113-00	METAL CHIP	470K	5%	1/10W
R423	1-216-089-00	RES-CHIP	47K	5%	1/10W
R500	1-216-081-00	METAL CHIP	22K	5%	1/10W
R501	1-216-097-00	RES-CHIP	100K	5%	1/10W
R502	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R503	1-216-073-00	METAL CHIP	10K	5%	1/10W
R504	1-216-085-00	METAL CHIP	33K	5%	1/10W
R505	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R506	1-216-833-11	RES-CHIP	10K	5%	1/16W
R507	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R508	1-216-833-11	RES-CHIP	10K	5%	1/16W
R509	1-216-809-11	METAL CHIP	100	5%	1/16W
R510	1-216-089-00	RES-CHIP	47K	5%	1/10W
R511	1-216-845-11	METAL CHIP	100K	5%	1/16W
R512	1-216-809-11	METAL CHIP	100	5%	1/16W
R513	1-216-841-11	METAL CHIP	47K	5%	1/16W
R514	1-216-025-00	RES-CHIP	100	5%	1/10W
R515	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R516	1-216-073-00	METAL CHIP	10K	5%	1/10W
R517	1-216-809-11	METAL CHIP	100	5%	1/16W
R518	1-216-025-00	RES-CHIP	100	5%	1/10W
R519	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R520	1-216-089-00	RES-CHIP	47K	5%	1/10W
R521	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R522	1-216-073-00	METAL CHIP	10K	5%	1/10W
R523	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R524	1-216-025-00	RES-CHIP	100	5%	1/10W
R525	1-216-833-11	RES-CHIP	10K	5%	1/16W
R526	1-216-017-00	RES-CHIP	47	5%	1/10W
R527	1-216-049-11	RES-CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R600	1-216-081-00	RES-CHIP	22K	5%	1/10W
R601	1-216-295-00	SHORT	0 (M550)		
R602	1-216-025-00	RES-CHIP	100	5%	1/10W
R603	1-216-864-11	METAL CHIP	0	5%	1/16W (M550)
R605	1-216-845-11	METAL CHIP	100K	5%	1/16W
R606	1-216-845-11	METAL CHIP	100K	5%	1/16W
R607	1-216-845-11	METAL CHIP	100K	5%	1/16W
R608	1-216-845-11	METAL CHIP	100K	5%	1/16W
R609	1-216-845-11	METAL CHIP	100K	5%	1/16W
R611	1-216-097-00	RES-CHIP	100K	5%	1/10W
R612	1-216-025-00	RES-CHIP	100	5%	1/10W
R613	1-216-073-00	METAL CHIP	10K	5%	1/10W
R614	1-216-025-00	RES-CHIP	100	5%	1/10W
R615	1-216-025-00	RES-CHIP	100	5%	1/10W
R616	1-216-073-00	METAL CHIP	10K	5%	1/10W
R617	1-216-097-00	RES-CHIP	100K	5%	1/10W
R618	1-216-073-00	METAL CHIP	10K	5%	1/10W
R619	1-216-845-11	METAL CHIP	100K	5%	1/16W
R620	1-216-821-11	METAL CHIP	1K	5%	1/16W
R621	1-216-049-11	RES-CHIP	1K	5%	1/10W
R622	1-216-845-11	METAL CHIP	100K	5%	1/16W
R623	1-216-821-11	METAL CHIP	1K	5%	1/16W
R624	1-216-845-11	METAL CHIP	100K	5%	1/16W
R625	1-216-295-00	SHORT	0 (M500R: TYPE A, D/M550)		
R626	1-216-295-00	SHORT	0 (M500R: TYPE A, C/M550)		
R632	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R633	1-216-845-11	METAL CHIP	100K	5%	1/16W
R634	1-216-839-11	METAL CHIP	33K	5%	1/16W
R635	1-216-821-11	METAL CHIP	1K	5%	1/16W
R636	1-216-097-00	RES-CHIP	100K	5%	1/10W
R638	1-216-845-11	METAL CHIP	100K	5%	1/16W (M500R)
R639	1-216-845-11	METAL CHIP	100K	5%	1/16W
R640	1-216-845-11	METAL CHIP	100K	5%	1/16W
R641	1-216-845-11	METAL CHIP	100K	5%	1/16W
R642	1-216-097-00	RES-CHIP	100K	5%	1/10W
R643	1-216-085-00	METAL CHIP	33K	5%	1/10W
R644	1-216-073-00	METAL CHIP	10K	5%	1/10W
R645	1-216-073-00	METAL CHIP	10K	5%	1/10W
R646	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R647	1-216-025-00	RES-CHIP	100	5%	1/10W
R648	1-216-037-00	METAL CHIP	330	5%	1/10W
R649	1-216-845-11	METAL CHIP	100K	5%	1/16W
R650	1-216-049-11	RES-CHIP	1K	5%	1/10W
R651	1-216-025-00	RES-CHIP	100	5%	1/10W
R652	1-216-049-11	RES-CHIP	1K	5%	1/10W
R653	1-216-081-00	METAL CHIP	22K	5%	1/10W
R654	1-216-097-00	RES-CHIP	100K	5%	1/10W
R655	1-216-081-00	METAL CHIP	22K	5%	1/10W
R656	1-216-097-00	RES-CHIP	100K	5%	1/10W
R657	1-216-821-11	METAL CHIP	1K	5%	1/16W
R658	1-216-821-11	METAL CHIP	1K	5%	1/16W
R659	1-216-049-11	RES-CHIP	1K	5%	1/10W
R660	1-216-097-00	RES-CHIP	100K	5%	1/10W
R661	1-216-097-00	RES-CHIP	100K	5%	1/10W
R662	1-216-813-11	METAL CHIP	220	5%	1/16W
R663	1-216-033-00	METAL CHIP	220	5%	1/10W

Ref. No.	Part No.	Description			Remark
R664	1-216-097-00	RES-CHIP	100K	5%	1/10W
R665	1-216-097-00	RES-CHIP	100K	5%	1/10W
R666	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R667	1-216-809-11	METAL CHIP	100	5%	1/16W
R668	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R669	1-216-809-11	METAL CHIP	100	5%	1/16W
R670	1-216-025-00	RES-CHIP	100	5%	1/10W
R671	1-216-025-00	RES-CHIP	100	5%	1/10W
R672	1-216-025-00	RES-CHIP	100	5%	1/10W
R673	1-216-025-00	RES-CHIP	100	5%	1/10W
R674	1-216-295-00	SHORT	0		
R675	1-216-025-00	RES-CHIP	100	5%	1/10W
R676	1-216-809-11	METAL CHIP	100	5%	1/16W
R677	1-216-025-00	RES-CHIP	100	5%	1/10W
R678	1-216-809-11	METAL CHIP	100	5%	1/16W
R679	1-216-845-11	METAL CHIP	100K	5%	1/16W
R680	1-216-845-11	METAL CHIP	100K	5%	1/16W
R681	1-216-845-11	METAL CHIP	100K	5%	1/16W
R682	1-216-097-00	RES-CHIP	100K	5%	1/10W
R700	1-216-001-00	METAL CHIP	10	5%	1/10W (M500R)
R701	1-216-113-00	METAL CHIP	470K	5%	1/10W (M500R)
R702	1-216-049-11	RES-CHIP	1K	5%	1/10W (M500R)
R703	1-216-830-11	METAL CHIP	5.6K	5%	1/16W (M500R)
R704	1-216-817-11	METAL CHIP	470	5%	1/16W (M500R)
R705	1-216-809-11	METAL CHIP	100	5%	1/16W (M500R)
R706	1-216-809-11	METAL CHIP	100	5%	1/16W (M500R)
R718	1-216-295-00	SHORT	0 (M550)		
R719	1-216-845-11	METAL CHIP	100K	5% (M500R: TYPE B, C)	1/16W
R720	1-216-845-11	METAL CHIP	100K	5% (M500R: TYPE B, D)	1/16W
R738	1-216-025-00	RES-CHIP	100	5%	1/10W (M500R)
R739	1-216-295-00	SHORT	0 (M500R)		
R740	1-216-864-11	METAL CHIP	0	5%	1/16W (M500R)
R741	1-216-864-11	METAL CHIP	0	5%	1/16W (M500R)
R742	1-216-864-11	METAL CHIP	0	5%	1/16W (M500R)
R743	1-216-864-11	METAL CHIP	0	5%	1/16W (M500R)
R750	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (M500R)
R751	1-216-073-00	METAL CHIP	10K	5%	1/10W (M500R)
R752	1-216-073-00	METAL CHIP	10K	5%	1/10W (M500R)
R753	1-216-065-00	RES-CHIP	4.7K	5%	1/10W (M500R)
R754	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (M500R)
R755	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (M500R)
R756	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (M500R)
R757	1-216-097-00	RES-CHIP	100K	5%	1/10W (M500R)
R758	1-216-121-00	RES-CHIP	1M	5%	1/10W (M500R)
R759	1-216-025-00	RES-CHIP	100	5%	1/10W (M500R)
R760	1-216-295-00	SHORT	0 (M500R)		
		< COMPOSITION CIRCUIT BLOCK >			
RB13	1-233-412-11	RES, CHIP NETWORK 1K (3216)			
RB14	1-233-810-21	RES, NETWORK 100K (3216)			
		< VARIABLE RESISTOR >			
RV400	1-238-090-11	RES, ADJ, CERMET	10K		
RV401	1-238-090-11	RES, ADJ, CERMET	10K		
		< TUNER >			
TUX100	A-3220-738-A	FM/AM TUNER UNIT (TUX-020)			
		< THERMISTOR >			
TH300	1-810-940-11	THERMISTOR, POSITIVE			
TH301	1-810-940-11	THERMISTOR, POSITIVE			
TH601	1-801-792-21	THERMISTOR, POSITIVE			
		< VIBRATOR >			
X600	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
X601	1-767-833-21	VIBRATOR, CERAMIC (3.68MHz)			
X602	1-781-822-11	VIBRATOR, CERAMIC (18.432MHz)			
X700	1-579-242-41	VIBRATOR, CRYSTAL (4.332MHz) (M500R)			
**********					
*	1-677-721-11	SUB BOARD			
		**********			
		< CAPACITOR >			
C900	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CN900	1-770-977-11	CONNECTOR, FPC 10P			
		< DIODE >			
D900	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)			
D901	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)			
D902	8-719-073-01	DIODE MA111-TX			
D903	8-719-065-09	DIODE 02DZ5.1-Y (TPH3)			
D904	8-719-079-10	LED CL-220UB-X-TS (CASSETTE SLOT INDICAOR)			
D905	8-719-072-57	LED CL-170UB-X-T (⏏)			
D906	8-719-065-18	DIODE 02DZ6.8-Y (TPH3)			
D907	8-719-065-48	DIODE 02DZ18-Y (TPH3)			
D908	8-719-065-48	DIODE 02DZ18-Y (TPH3)			
		< IC >			
IC900	8-749-012-25	IC RS-170-TU			

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q900	8-729-207-56	TRANSISTOR	RN1402-TE85L		
Q901	8-729-207-68	TRANSISTOR	RN2402-TE85L		
		< RESISTOR >			
R900	1-216-025-00	RES-CHIP	100	5%	1/10W
R901	1-216-041-00	METAL CHIP	470	5%	1/10W
R902	1-216-085-00	METAL CHIP	33K	5%	1/10W
R903	1-216-021-00	METAL CHIP	68	5%	1/10W
R905	1-216-049-11	RES-CHIP	1K	5%	1/10W
		< SWITCH >			
S900	1-692-135-21	SWITCH, KEY BOARD (⏏)			
S901	1-762-947-21	SWITCH, PUSH (1 KEY) (CASSETTE IN/OUT DETECT)			
S902	1-692-135-21	SWITCH, KEY BOARD (RESET)			

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A-3326-298-A SWITCH BOARD, COMPLETE

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For the parts on the SWITCH board, replace the entire mounted board.

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MISCELLANEOUS

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6	1-792-584-11	CABLE, FLAT	
9	1-792-194-11	CORD (WITH CONNECTOR) (POWER) (M550)	
9	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER) (M500R)	
81	1-677-340-11	FLEXIBLE BOARD	
115	1-777-246-21	CORD (WITH CONNECTOR) (ANT)	
117	1-790-375-11	CORD (WITH CONNECTOR) (SUB OUT(MONO)) (M550)	
F1	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE)	
M601	X-3378-769-1	MOTOR ASSY (SERVICE USE) (FRONT PANEL OPEN/CLOSE)	
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)	

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HARDWARE LIST

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#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#3	7-621-772-09	SCREW +B 2X3	
#6	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	
#7	7-627-553-17	PRECISION SCREW +P 2X2 TYPE3	
#8	7-624-102-04	STOP RING 1.5, TYPE -E	
#9	7-627-553-28	SCREW,PRECISION +P 2X2.5	
#10	7-685-794-09	SCREW +PTT 2.6X10 (S)	
#12	7-624-104-04	STOP RING 20, TYPE-E	

****

ACCESSORIES & PACKING MATERIALS

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	1-418-812-41	WIRELESS REMOTE COMMANDER (RM-X94) (M550)
	1-418-812-71	WIRELESS REMOTE COMMANDER (RM-X96) (M500R)
	3-047-781-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (M550)
	3-047-783-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE) (M500R: AEP, UK)
	3-047-783-21	MANUAL, INSTRUCTION (FRENCH, GERMAN,DUTCH, ITALIAN, GREEK) (M500R: AEP)
	3-047-783-31	MANUAL, INSTRUCTION (GERMAN) (M500R: GERMAN)
	3-047-783-41	MANUAL, INSTRUCTION (ENGLISH, CZECK, POLISH, TURKISH, RUSSIAN) (M500R: SOUTH EUROPEAN)
	3-047-782-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, SPANISH) (M550)
	3-047-784-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, SWEDISH, PORTUGUESE) (M500R: AEP, UK)
	3-047-784-21	MANUAL, INSTRUCTION, INSTALL (FRENCH, GERMAN, DUTCH, ITALIAN, GREEK) (M500R: AEP, GERMAN)
	3-047-784-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, CZECK, POLISH, TURKISH, RUSSIAN) (M500R: SOUTH EUROPEAN)
	3-044-623-01	HOLDER, BATTERY (FOR RM-X94/X96)

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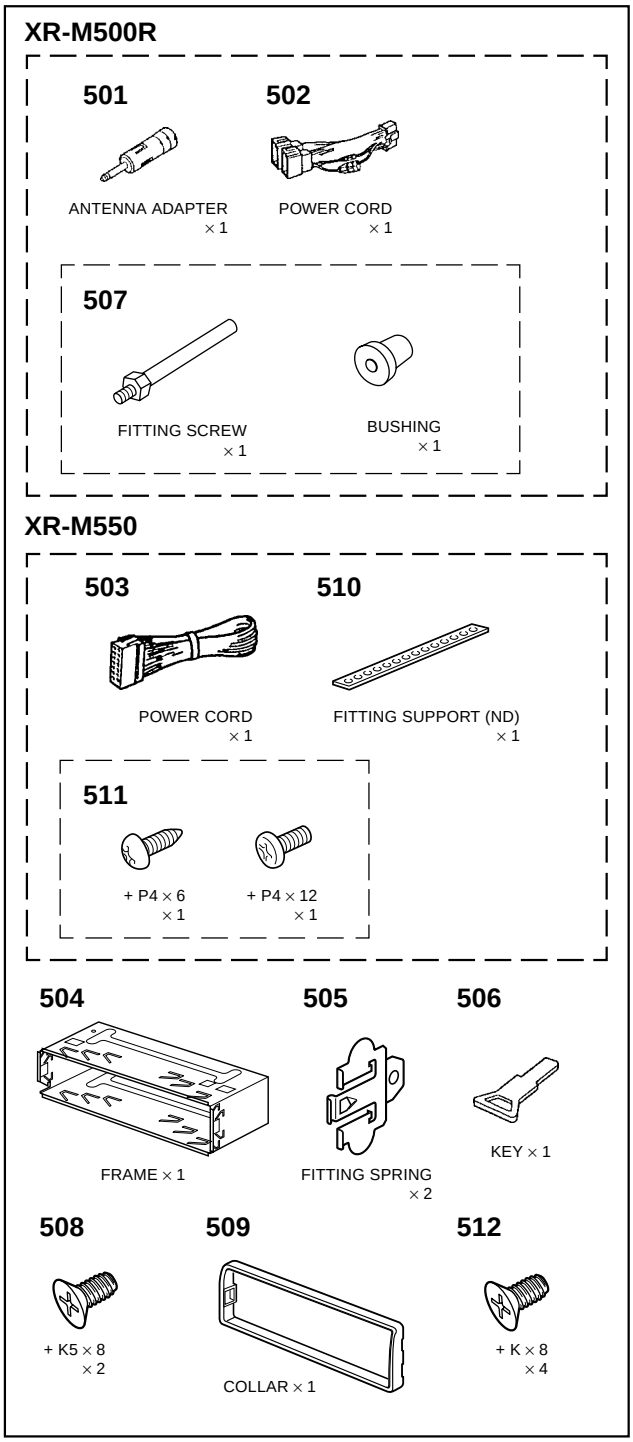
Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTION	
		**********	
501	1-465-459-21	ADAPTER, ANTENNA (M500R)	
502	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER)	(M500R)
503	1-792-194-11	CORD (WITH CONNECTOR) (POWER) (M550)	
504	3-014-370-21	FRAME, FITTING	
505	3-030-929-02	SPRING, FITTING	
* 506	3-048-118-01	KEY	
507	X-3366-405-1	SCREW ASSY (EXP), FITTING(M500R)	
508	3-934-325-01	SCREW (+K 5X8 TP)	
509	X-3378-770-1	COLLAR ASSY	
510	3-916-012-01	BRACKET (ND), FITTING ASSIST (M550)	
511	X-3368-725-1	SCREW ASSY, FITTING (M550)	
512	3-934-325-01	SCREW (+K 5X8 TP)	



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